```
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
```

```
_$

Va
--
00
00
00
00
00
00
00
00
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
```

M 7

```
**FILE**ID**EDFASK
```

```
EEEEEEEEEE  DDDDDDDD    FFFFFFFFFF    AAAAAA      SSSSSSSS  KK      KK
EEEEEEEEEE  DDDDDDDD    FFFFFFFFFF    AAAAAA      SSSSSSSS  KK      KK
EE          DD      DD  FF          AA      AA  SS          KK      KK
EE          DD      DD  FF          AA      AA  SS          KK      KK
EE          DD      DD  FF          AA      AA  SS          KK    KK
EE          DD      DD  FF          AA      AA  SS          KK    KK
EEEEEEEE    DD      DD  FFFFFFFF    AA      AA    SSSSSS    KKKKKK
EEEEEEEE    DD      DD  FFFFFFFF    AA      AA    SSSSSS    KKKKKK
EE          DD      DD  FF          AAAAAAAAAA          SS  KK    KK
EE          DD      DD  FF          AAAAAAAAAA          SS  KK    KK
EE          DD      DD  FF          AA      AA          SS  KK      KK      ....
EE          DD      DD  FF          AA      AA          SS  KK      KK      ....
EEEEEEEEEE  DDDDDDDD    FF          AA      AA  SSSSSSSS    KK      KK      ....
EEEEEEEEEE  DDDDDDDD    FF          AA      AA  SSSSSSSS    KK      KK      ....

LL            IIIIII    SSSSSSSS
LL            IIIIII    SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
        [ IDENT ('V04-000'),
    { ++
    ****************************************************************************
    **                                                                         *
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    ****************************************************************************



    FACILITY:       VAX/VMS EDF (EDIT/FDL) UTILITY

    ABSTRACT:       This facility is used to create, modify, and optimize
                    FDL specification files.

    ENVIRONMENT:    NATIVE/USER MODE

    AUTHOR:         Ken F. Henderson Jr.

    CREATION DATE:  27-Mar-1981

    MODIFIED BY:
                    V03-018 JWT0191         Jim Teague              2 Aug 1984
                            Remove knowledge of ERASE_ON_DELETE.

                    V03-017 RRB0017         Rowland R. Bradley      6 Mar 1984
                            Disallow ACLs - Commented out ACLs, will support
                            later.

                    V03-016 RRB0009         Rowland R. Bradley      22 Jan 1984
                            Enhancement for display of # buckets in index, # of
                            pages to cache index, and average # key examinations.

                    V03-015 RRB0007         Rowland R. Bradley      19 Jan 1984
                            Fix set analysis file to update the correct data
                            structure.

                    V03-014 KFH0014         Ken Henderson           10 Sep 1983
                            Support for named UICs

        V03-013 KFH0013         Ken Henderson            8 Aug 1983
                Bugfixing for FT1.
                Changes for seperate compilation.

        V03-012 KFH0012         Ken Henderson           27 Jul 1983
                Fixed calculation of record and bucket
                overheads in blocks_in_bucket question.
                Added DEFERRED_WRITE.

        V03-011 KFH0011         Ken Henderson           27 May 1983
                Modified PRE_PROCESS for KEY_COMP_WANTED,
                REC_COMP_WANTED, IDX_COMP_WANTED to
                force not wanted if not String datatype.
                Also force REC_COMP_WANTED to false if
                not Key 0.

        V03-010 KFH0010         Ken Henderson           26 Apr 1983
                Modified PRE_PROCESS for
                EDF$K_NUMBER_KEYS, EDF$K_SURFACE_OPTION.
                Add ASK_KEY_SIZE, ASK_KEY_POSITION.
                Add ADD_KEY, DELETE_KEY to SCRIPT_OPTION.
                Removed EDF$K_GLOBAL_COUNT question.

        V03-009 KFH0009         Ken Henderson           14 Apr 1983
                Changed max bucketsize to 63 from 65.
                Added SET_FUNCTION, GRANULARITY, PROMPTING,
                JOURNAL_ENABLED, and RESPONSES. Modified
                questions about DUPLICATES, COMPRESSION_WANTED.

        V03-008 KFH0008         Ken Henderson            7 Mar 1983
                Changed max bucketsize to 65 from 127.

        V03-007 KFH0007         Ken Henderson           20 Jan 1983
                Fixed REGIS support in DESIGN_CYCLE
                section of PRE_PROCESS. Also removed
                references to DASH. Also added
                Depthpoint displays to bucketsize
                question.

        V03-006 KFH0006         Ken Henderson           22 Nov 1982
                Added support for additional FILE and
                CONNECT attributes.

        V03-005 KFH0005         Ken Henderson           8 Sept 1982
                Modifed almost all variables to fit into
                new database scheme of arrays. Also added
                QUERY routine to process the QTAB table-
                driven Q+As. Also added support routines
                for QUERY. Also replaced almost ALL the
                "ASK_xxx" routines with QTAB/QUERY.

        V03-004 KFH0004         Ken Henderson           19 April 1982
                Modified ASK_BUCKET to correct its
                handling of alternate keys.

        V03-003 KFH0003         Ken Henderson           24-Mar-1982
```

```
                        Modified ASK_TEST_SECONDARY_VALUE to fix
                        QAR 833

                V03-002 KFH0002         Ken Henderson           23-Mar-1982
                        Modified several 'ASK_' routines to fix
                        FT2 QARs 745,746

                V03-001 KFH0001         Ken Henderson           17-Mar-1982
                        Modified several 'ASK_' routines to fix
                        FT2 QARs 509,449,574,575

        -- }
```

```
ENVIRONMENT ('LIB$:EDFASK'),

INHERIT (

'SYS$LIBRARY:STARLET',
'SHRLIB$:FDLPARDEF',
'LIB$:EDFSDLMSG',
'LIB$:EDFSTRUCT',
'LIB$:EDFCONST',
'LIB$:EDFTYPE',
'LIB$:EDFVAR',
'LIB$:EDFEXTERN',
'LIB$:EDFCHF',
'LIB$:EDFUTIL'

)]

MODULE EDFASK (INPUT,OUTPUT);
```

```
{ ++

WRITE_HELP -- Routine to output per question help text.

This procedure cases on qtab-offset to output the help text.

CALLING SEQUENCE:

WRITE_HELP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE WRITE_HELP;

BEGIN

    CASE QTAB_OFFSET OF

        EDF$K_DESIGN_CYCLE :

            WRITELN (SHIFT,'Type the 2 letter mnemonic of the selected option.');

        EDF$K_KEY_POSITION :

            WRITELN (SHIFT,
            'This is the starting byte of the key or key segment.');

        EDF$K_KEY_DIST :

            WRITELN (
            SHIFT,'This refers to records that are added to the',CRLF_SHIFT,
            'file after it is initially loaded.');

        EDF$K_KEY_CHANGES :

            WRITELN (SHIFT,'This enables or disables the RMS option.');

        EDF$K_KEY_DUPS :

            WRITELN (SHIFT,'This enables or disables the RMS option.');

        EDF$K_SEGMENTED :

            WRITELN (SHIFT,'Each string key may consist of up to 8 parts.');

        EDF$K_GLOBAL_WANTED :

            WRITELN (
            SHIFT,'These usually increase the speed of file sharing,',
            CRLF_SHIFT,'at the expense of using more physical memory.');

        EDF$K_RESPONSES :

            WRITELN (
            SHIFT,'Automatic means the default answers will be used without',
            CRLF_SHIFT,'waiting for confirmation.');

        EDF$K_PROMPTING :

            WRITELN (SHIFT,'This controls whether full menus are displayed.');

        EDF$K_NUMBER_RECORDS :

            WRITELN (SHIFT,'This will determine the allocation of the file.');

        EDF$K_ASCENDING_LOAD :

            WRITELN (
            SHIFT,'This refers to the order of the initial records loaded.');
```

```

EDF$K_INITIAL_COUNT,
EDF$K_INITIAL_COUNT_LOW,
EDF$K_INITIAL_COUNT_HIGH :

    WRITELN (SHIFT,
    'These are the records initially loaded into the file.',CRLF_SHIFT,
    'If the file will have no ''Load'' operation, specify ''0''.');

EDF$K_ADDED_COUNT,
EDF$K_ADDED_COUNT_LOW,
EDF$K_ADDED_COUNT_HIGH :

    WRITELN (SHIFT,
    'These are the records added after the initial file load.');

EDF$K_BLOCK_SPAN :

    WRITELN (
    SHIFT,'If no, each record plus overhead must fit in a disk block.',
    CRLF_SHIFT,'Also, some space may be wasted at the end of blocks.');

EDF$K_KEY_LOW,
EDF$K_KEY_HIGH,
EDF$K_KEY_SIZE :

    WRITELN (SHIFT,'This is the length of the key (segment) in bytes.',
    CRLF_SHIFT,
    '(With multi-segment keys, answer ''0'' after the last segment.)');

EDF$K_PROLOGUE_VERSION :

    WRITELN (SHIFT,
    'This refers to the structure level of the data file.',
    CRLF_SHIFT,
    'A value of 0 lets RMS choose an appropriate prolog.');

EDF$K_KEY_COMP_WANTED,
EDF$K_REC_COMP_WANTED,
EDF$K_IDX_COMP_WANTED :

    WRITELN (SHIFT,
    'If an Analyze/RMS indicates little compression is acheived',
    CRLF_SHIFT,
    'then answer No, otherwise it is usually better to answer Yes.');

EDF$K_CLUSTER_SIZE :

    WRITELN (SHIFT,
    'SHOW DEVICE/FULL can be used to determine this value.');

EDF$K_ASCENDING_ADDED :

    WRITELN (SHIFT,
    'This refers to the orderring of additional records.');

EDF$K_BLOCKS_IN_BUCKET :
    WRITELN (SHIFT,
    'Legal range is 1 to 63 blocks per bucket, and buckets must',
    CRLF_SHIFT,
    'be large enough to hold at least 1 record plus overhead.');

EDF$K_BUCKET_WEIGHT :

    WRITELN (SHIFT,
    'Smaller_Buffers: less memory and RMS processing used',
    CRLF_SHIFT,
    'Flatter_Files:   fewer actual disk accesses needed');

EDF$K_LOAD_METHOD :

    IF WAIT_HELP THEN

        WRITELN (SHIFT,
        'Legal values: Fast_Convert, NoFast_Convert, RMS_Puts')

    ELSE

        WRITELN (SHIFT,
        'Fast_Convert:   using the VAX-11 Convert/Fast_Load option',
        CRLF_SHIFT,
        'NoFast_Convert: using the VAX-11 Convert/NoFast_Load option',
        CRLF_SHIFT,
        'RMS_Puts:       writing to a file from a High Level Language');

EDF$K_FILL_LOW,
EDF$K_FILL_HIGH,
EDF$K_DESIRED_FILL :

    WRITELN (SHIFT,'This is the initial file loading fill factor.');

EDF$K_KEY_TYPE :

BEGIN

    IF WAIT_HELP THEN

        WRITELN (SHIFT,
        'Legal types: Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal String')

    ELSE

        WRITELN (SHIFT,
        'Use',
        CRLF_SHIFT,
        '''Binx'' types for unsigned binary keys of 2, 4 or 8 bytes.',
        CRLF_SHIFT,
        '''Intx'' types for signed binary key of 2, 4 or 8 bytes.',
        CRLF_SHIFT,
        '''Decimal'' type for packed decimal key of 1 to 16 bytes.',
        CRLF_SHIFT,
        '''String'' type for character string key of 1 to 255 bytes.');
```

```
            END;    { EDF$K_KEY_TYPE }

            EDF$K_RECORD_FORMAT :

                WRITELN (
                SHIFT,'Indexed files are only Fixed or Variable.',CRLF_SHIFT,
                'Stream format (Seq only) is Stream, Stream_CR, or Stream_LF.');

            EDF$K_ACTIVE_KEY :

                WRITELN (SHIFT,'Select an already defined key.');

            EDF$K_NUMBER_KEYS :

                WRITELN (SHIFT,'An Indexed file can have from 1 to 255 keys.');

            EDF$K_CONTROL_SIZE :

                WRITELN (SHIFT,'This refers to the Fixed portion of the record.');

            EDF$K_SIZE_LOW,
            EDF$K_SIZE_HIGH,
            EDF$K_MEAN_RECORD_SIZE :

                WRITELN (SHIFT,'This refers to the records in the data file.');

            EDF$K_MAX_RECORD_SIZE :

            BEGIN

                WRITELN (SHIFT,
                'This sets the longest record that can be stored in the file.');

                IF IDATA[EDF$K_SCRIPT_OPTION] <> EDF$K_REL_DESIGN_FDL THEN

                    WRITELN (SHIFT,
                    'A maximum of 0 will set no explicit maximum.');

            END;    { EDF$K_MAX_RECORD_SIZE }

            EDF$K_CARR_CTRL :

                WRITELN (SHIFT,'This sets the Record attributes of the file.');

        OTHERWISE

            { NULL-STATEMENT } ;

        END;        { CASE }

        IF (
        (WAIT_HELP)
        AND
        (NOT AUTO_TUNE)
        ) THEN

            LIB$WAIT (3.0);
        END;    { WRITE_HELP }
        { ++

        WRITE_QUESTION -- Routine to output the question text.

        This procedure cases on the qtab-offset and outputs the correct string.

        CALLING SEQUENCE:

        WRITE_QUESTION;

        INPUT PARAMETERS:

        none

        IMPLICIT INPUTS:

        none

        OUTPUT PARAMETERS:

        none

        IMPLICIT OUTPUTS:

        none

        ROUTINES CALLED:

        none

        ROUTINE VALUE:

        none

        SIGNALS:

        none

        SIDE EFFECTS:


        -- }
```

```
PROCEDURE WRITE_QUESTION;

BEGIN

    CASE QTAB_OFFSET OF

        EDF$K_INITIAL_COUNT_LOW :

            WRITE (SHIFT,
            'Low bound: Initial Load of Recs    (0-1Giga)[0]     : ');

        EDF$K_INITIAL_COUNT_HIGH :

        BEGIN

            WRITE (SHIFT,'High bound: Initial Load of Recs(',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
            '-1Giga)[',DEF:NUM_LEN(DEF),']');

            IF (NUM_LEN(IDATA[EDF$K_Y_LOW])+NUM_LEN(DEF)) <= 3 THEN

                WRITE ('         : ')

            ELSE

                WRITE (' : ');

        END;    { EDF$K_INITIAL_COUNT_HIGH }

        EDF$K_ADDED_COUNT_LOW :

        BEGIN

            WRITE (SHIFT,
            'Low bound: Number of Added Recs    (0-1Giga)[0]     : ');

        END;    { EDF$K_ADDED_COUNT_LOW }

        EDF$K_ADDED_COUNT_HIGH :

        BEGIN

            WRITE (SHIFT,'High bound: Number of Added Recs(',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
            '-1Giga)[',DEF:NUM_LEN(DEF),']');

            IF (NUM_LEN(IDATA[EDF$K_Y_LOW])+NUM_LEN(DEF)) <= 3 THEN

                WRITE ('         : ')

            ELSE

                WRITE (' : ');

        END;    { EDF$K_ADDED_COUNT_HIGH }

        EDF$K_KEY_LOW :

            WRITE (SHIFT,'Low bound: Key',
            IDATA[EDF$K_ACTIVE_KEY]:3,
            ' Length    (1-',
            MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')[1]     : ');

        EDF$K_KEY_HIGH :

            WRITE (SHIFT,'High bound: Key',
            IDATA[EDF$K_ACTIVE_KEY]:3,' Length  (',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
            '-',MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')[',
            MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),']         : ');

        EDF$K_SIZE_LOW :

        BEGIN

            WRITE (SHIFT,'Low bound: Record Size                    (1-',
            CUR_MAX_REC:5,')[1] : ');

        END;    { EDF$K_SIZE_LOW }

        EDF$K_SIZE_HIGH :

        BEGIN

            WRITE (SHIFT,'High bound: Record Size                   (',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),'-',
            CUR_MAX_REC:5,')[1000]');

            IF NUM_LEN(IDATA[EDF$K_Y_LOW]) < 3 THEN

                WRITE ('         : ')

            ELSE

                WRITE (' : ');

        END;    { EDF$K_SIZE_HIGH }

        EDF$K_FILL_LOW :

            WRITE (SHIFT,'Low bound: Key',
            IDATA[EDF$K_ACTIVE_KEY]:3,
            ' Init Fill %        (50-100)[50]     : ');

        EDF$K_FILL_HIGH :

            WRITE (SHIFT,'High bound: Key',
            IDATA[EDF$K_ACTIVE_KEY]:3,
            ' Init Fill %        (50-100)[100]    : ');

        EDF$K_SCRIPT_OPTION :

        BEGIN

        CLEAR (IF_FULL_PROMPT);

        { +
        Show the menu only if we're being verbose.
        - }
        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

        BEGIN

            { +
            Put the title out in reverse video.
            - }
            WRITELN (
            SHIFT,
            '               ',
            ANSI_REVERSE,
            ' Script Title Selection ',
            ANSI_RESET,
            CRLF,
            CRLF_SHIFT,
'Add_Key            modeling and addition of a new index''s parameters',
            CRLF_SHIFT,
'Delete_Key removal of the highest index''s parameters',
            CRLF_SHIFT,
'Indexed            modeling of parameters for an entire Indexed file',
            CRLF_SHIFT,
'Optimize   tuning of all indices'' parameters using file statistics',
            CRLF_SHIFT,
'Relative   selection of parameters for a Relative file',
            CRLF_SHIFT,
'Sequential selection of parameters for a Sequential file',
            CRLF_SHIFT,
'Touchup            remodeling of parameters for a particular index',
            CRLF
            );

        END

        ELSE

            WRITELN (SHIFT,
            '(Add_Key Delete_Key Indexed Optimize',
            CRLF_SHIFT,
            ' Relative Sequential Touchup)');

        { +
        Pop the question.
        - }
        WRITE (SHIFT,'Editing Script Title          (Keyword)',
        ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');

    END;    { EDF$K_SCRIPT_OPTION }

    EDF$K_RETURN :

        WRITE (CRLF,SHIFT,ANSI_REVERSE,CONTINUE_TEXT,
        ANSI_RESET,'         ');
```

```

EDF$K_DESIGN_CYCLE :

    WRITE (SHIFT,'(Type ''FD'' to Finish Design)',
    CRLF_SHIFT,
    'Which File Parameter        (Mnemonic)[refresh]      : ');

EDF$K_CURRENT_FUNCTION :

BEGIN

    CLEAR (SCREEN);

    { +
    Only show the menu if we're being verbose.
    - }
    IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

    BEGIN

        { +
        Show the header in reverse video, and then the
        rest of the menu.
        - }
        WRITELN (
        SHIFT,
        '                    ',
        ANSI_REVERSE,
        EDF_HEADER,
        ANSI_RESET,
        CRLF,
        CRLF_SHIFT,
    'Add        to insert one or more lines into the FDL definition',
        CRLF_SHIFT,
    'Delete     to remove one or more lines from the FDL definition',
        CRLF_SHIFT,
    'Exit       to leave the FDL Editor after creating the FDL file',
        CRLF_SHIFT,
    'Help       to obtain information about the FDL Editor',
        CRLF_SHIFT,
    'Invoke     to initiate a script of related questions',
        CRLF_SHIFT,
    'Modify     to change existing line(s) in the FDL definition',
        CRLF_SHIFT,
    'Quit       to abort the FDL Editor with no FDL file creation',
        CRLF_SHIFT,
    'Set        to specify FDL Editor characteristics',
        CRLF_SHIFT,
    'View       to display the current FDL Definition',
        CRLF);

    END { IF TRUE FULL_PROMPT OR TEMP_FULL_PROMPT }

    ELSE

        WRITELN (SHIFT,
        '(Add Delete Exit Help Invoke Modify Quit Set View)');
```

```

                { +
                Pop the question.
                - }
                WRITE (SHIFT,
                'Main Editor Function                (Keyword)[Help] : ');

            END;    { EDF$K_CURRENT_FUNCTION }


            EDF$K_RESPONSES :

            BEGIN

                WRITE (SHIFT,'(Automatic Manual)',CRLF_SHIFT,
                'Default responses in scripts       (Keyword)[Auto] : ');

            END;

            EDF$K_PROMPTING :

            BEGIN

                WRITELN (SHIFT,'(Brief Full)');
                WRITE (SHIFT,
                'Prompting level for menus  (Keyword)[Full] : ');

            END;

            EDF$K_KEY_POSITION :

            BEGIN

                WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
                ' Position          ');

                IF BDATA[EDF$K_SEGMENTED] THEN

                    WRITE ('SEG',SEGMENT_NUMBER:1);

                WRITE ('    (0-',
                MAX_KEY_POSITION:NUM_LEN(MAX_KEY_POSITION),')[0]    : ');

            END;    { EDF$K_KEY_POSITION }

            EDF$K_KEY_DIST :

            BEGIN

                WRITELN (SHIFT,
                'Will Added Records be Distributed Evenly over the');

                IF NOT OPTIMIZING THEN

                    WRITE (SHIFT,'Initial')

                ELSE
```

```

        WRITE (SHIFT,'Reloaded');

    WRITE (' Range of Pri Key Values');

    IF NOT OPTIMIZING THEN

        WRITE (TAB);

    WRITE ('(Yes/No)[No]         : ');

END;    { EDF$K_KEY_DIST }

EDF$K_KEY_CHANGES :

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Changes allowed            (Yes/No)[Yes]   : ');

EDF$K_KEY_DUPS :

BEGIN

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Duplicates allowed         (Yes/No)[');

    { +
    The default for the primary key is NO, for alternates YES.
    - }
    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        WRITE ('No]     : ')

    ELSE

        WRITE ('Yes]    : ');

END;    { EDF$K_KEY_DUPS }

EDF$K_SEGMENTED :

    WRITE (SHIFT,
    'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Segmentation desired      (Yes/No)[No]    : ');

EDF$K_GLOBAL_WANTED :

    WRITE (SHIFT,
    'Global Buffers desired            (Yes/No)[No]    : ');

EDF$K_NUMBER_RECORDS :

    WRITE (SHIFT,'File Capacity in Records      (0-1Giga)',
    ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');

EDF$K_INITIAL_COUNT :

BEGIN
```

```

    IF NOT OPTIMIZING THEN

        WRITELN (SHIFT,
        'Number of Records that will be Initially Loaded')

    ELSE

        WRITELN (SHIFT,'Number of Records that will be Reloaded');

    WRITE (SHIFT,'into the File','                      (0-1Giga)');

    IF NOT OPTIMIZING THEN

        WRITE (ANSI_REVERSE,'[-]',ANSI_RESET,'  : ')

    ELSE

    BEGIN

        WRITE ('[',OLD_COUNT:NUM_LEN(OLD_COUNT),']');

        IF NUM_LEN(OLD_COUNT) > 4 THEN

            WRITE (' : ')

        ELSE

            WRITE ('    : ');

    END;

END;    { EDF$K_INITIAL_COUNT }

EDF$K_LOAD_METHOD :

BEGIN

    WRITELN (SHIFT,'(Fast_Convert Nofast_Convert RMS_Puts)');

    IF NOT OPTIMIZING THEN

        WRITE (SHIFT,'Initial File Load Method  ')

    ELSE

        WRITE (SHIFT,'File Reloading Method             ');

    WRITE ('(Keyword)[Fast]     : ');

END;    { EDF$K_LOAD_METHOD }

EDF$K_ASCENDING_LOAD :

BEGIN

    IF NOT OPTIMIZING THEN
```

```

        WRITELN (SHIFT,
        'Will Initial Records Typically be Loaded in Order')

    ELSE

        WRITELN (SHIFT,
        'Will the Records be Reloaded Typically in Order');

    WRITE (SHIFT,
    'by Ascending Primary Key   (Yes/No)[No]    : ');

END;    { EDF$K_ASCENDING_LOAD }

EDF$K_ADDED_COUNT :

BEGIN

    WRITELN (SHIFT,
    'Number of Additional Records to be Added After');

    IF NOT OPTIMIZING THEN

        WRITE (SHIFT,'the Initial File Load')

    ELSE

        WRITE (SHIFT,'the Reloading the File');

    WRITE ('           (0-1Giga)[0]    : ');

END;    { EDF$K_ADDED_COUNT }

EDF$K_KEY_COMP_WANTED :

    WRITE (SHIFT,
    'Data Key Compression desired       (Yes/No)[Yes]   : ');

EDF$K_REC_COMP_WANTED :

    WRITE (SHIFT,
    'Data Record Compression desired    (Yes/No)[Yes]   : ');

EDF$K_IDX_COMP_WANTED :

    WRITE (SHIFT,
    'Index Compression desired  (Yes/No)[Yes]   : ');

EDF$K_CLUSTER_SIZE :

    WRITE (SHIFT,
    'Target disk volume Cluster Size    (1-1Giga)[3]    : ');

EDF$K_BLOCK_SPAN :

    WRITE (SHIFT,
    'Records can span disk blocks       (Yes/No)[Yes]   : ');
```

```
EDF$K_ASCENDING_ADDED :

    WRITE (SHIFT,
    'Will Additional Records Typically be Added in',CRLF_SHIFT,
    'Order by Ascending Primary Key     (Yes/No)[No]    : ');

EDF$K_PROLOGUE_VERSION :

    WRITE (SHIFT,
    'File Prolog Version                (0-3)[3]        : ');

EDF$K_KEY_SIZE :

BEGIN

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Length           ');

    IF BDATA[EDF$K_SEGMENTED] THEN

        WRITE ('SEG',SEGMENT_NUMBER:1);

    WRITE ('    (',MIN_KEY_SIZE:NUM_LEN(MIN_KEY_SIZE),'-',
    MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')',
    ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');

END;    { EDF$K_KEY_SIZE }

EDF$K_BLOCKS_IN_BUCKET :

BEGIN

    WRITE (SHIFT,'Emphasis Used In Defining Default:    ( ');

    IF IDATA[EDF$K_BUCKET_WEIGHT] = EDF$K_SMALLER_BUFFERS THEN

        WRITELN ('   Smaller_buffers )')

    ELSE

        WRITELN ('   Flatter_files   )');

    WRITELN (SHIFT,'Suggested Bucket Sizes:                                    ( ',
    BREAKPOINT_LEFT:6,
    BREAKPOINT_MID:6,BREAKPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Number of Levels in Index:                         ( ',
    DEPTHPOINT_LEFT:6,
    DEPTHPOINT_MID:6,DEPTHPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Number of Buckets in Index:                        ( ',
    NUMPOINT_LEFT:6,
    NUMPOINT_MID:6,NUMPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Pages Required to Cache Index:                             ( ',
    PAGEPOINT_LEFT:6,
            PAGEPOINT_MID:6,PAGEPOINT_RIGHT:6,' )');

            WRITELN (SHIFT,'Processing Used to Search Index:     ( ',
            EXAMPOINT_LEFT:6,
            EXAMPOINT_MID:6,EXAMPOINT_RIGHT:6,' )');

            WRITE (CRLF_SHIFT,'Key',
            IDATA[EDF$K_ACTIVE_KEY]:3,
            ' Bucket Size               (',MIN_BUCKET:NUM_LEN(MIN_BUCKET),
            '-63)[',
            QTAB[QTAB_OFFSET].DEFAULT:NUM_LEN(QTAB[QTAB_OFFSET].DEFAULT),
            ']  : ');

        END;    { EDF$K_BLOCKS_IN_BUCKET }

        EDF$K_BUCKET_WEIGHT :

        BEGIN

            WRITE (SHIFT,'(Smaller Buffers Flatter Files)',
            CRLF_SHIFT,'Emphasis for Default Bucket_Size(Keyword)[');

            IF QTAB[QTAB_OFFSET].DEFAULT = EDF$K_FLATTER_FILES THEN

                WRITE ('Flat]   : ')

            ELSE

                WRITE ('Small] : ');

        END;    { EDF$K_BUCKET_WEIGHT }

        EDF$K_DESIRED_FILL :

            WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
            ' Load Fill Percent (50-100)[100]   : ');

        EDF$K_CONFIRM :

            WRITE (SHIFT,
            'Replace this existing secondary    (Yes/No)[No]    : ');

        EDF$K_DATA_FILE_NAME :

            WRITE (SHIFT,
            'Data File file-spec                (1-126 chars)[null]',
            CRLF_SHIFT,': ');

        EDF$K_ANALYSIS :

            WRITE (SHIFT,'Analysis File file-spec       (1-126 chars)[null]',
            CRLF_SHIFT,': ');

        EDF$K_OUTPUT :

            WRITE (SHIFT,
            'Output File file-spec              (1-126 chars)[null]',
    CRLF_SHIFT,': ');

EDF$K_FDL_TITLE :

    WRITE (SHIFT,
    'Text for FDL Title Section (1-126 chars)[null]',
    CRLF_SHIFT,': ');

EDF$K_KEY_NAME :

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Name                       (1=32 chars)[null]',CRLF_SHIFT,
    ': ');

EDF$K_KEY_TYPE :

BEGIN

    WRITE (SHIFT,'(Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal String)',
    CRLF_SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Data Type          (Keyword)[Str]  : ');

END;    { EDF$K_KEY_TYPE }

EDF$K_ACTIVE_KEY :

    WRITE (SHIFT,'Key of Reference                (',
    LOW_KEY:NUM_LEN(LOW_KEY),'-',HIGH_KEY:NUM_LEN(HIGH_KEY)
    ,')[0]         : ');

EDF$K_NUMBER_KEYS :

BEGIN

    WRITE (SHIFT,'Number of Keys to Define       (1-255)[',
    QTAB[QTAB_OFFSET].DEFAULT:NUM_LEN(QTAB[QTAB_OFFSET].DEFAULT),
    ']  : ');

END;

EDF$K_CARR_CTRL :

BEGIN

    WRITE (SHIFT,'(Carriage_Return FORTRAN None Print)',
    CRLF_SHIFT,'Carriage Control                  (Keyword)[Carr] : ');

END;    { EDF$K_CARR_CTRL }

EDF$K_RECORD_FORMAT :

BEGIN

    CASE IDATA[EDF$K_SCRIPT_OPTION] OF

        EDF$K_ADD_KEY_FDL,
        EDF$K_DELETE_KEY_FDL,
                EDF$K_REDESIGN_FDL,
                EDF$K_OPTIMIZE_FDL,
                EDF$K_IDX_DESIGN_FDL : WRITELN (SHIFT,'(Fixed variable)');
                EDF$K_REL_DESIGN_FDL : WRITELN (SHIFT,'(Fixed Variable VFC)');
                EDF$K_SEQ_DESIGN_FDL : WRITELN (SHIFT,
                        '(Fixed Stream _CR _LF Undefined Variable VFC)');

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

            WRITE (SHIFT,
            'Record Format                      (Keyword)[Var]  : ');

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_CONTROL_SIZE :

            WRITE (SHIFT,'Control Field Size            (1-',
            CUR_MAX_FIXED:NUM_LEN(CUR_MAX_FIXED),')[2]  : ');

        EDF$K_MEAN_RECORD_SIZE :

        BEGIN

            WRITE (SHIFT);

            IF VARIABLE_RECORDS THEN

                WRITE ('Mean ');

            WRITE ('Record Size');

            IF IDATA[EDF$K_RECORD_FORMAT] = FDL$C_VFC THEN

                WRITE (' w/fix');

            IF NOT VARIABLE_RECORDS THEN

                WRITE (TAB);

            WRITE ('            (1-',
            CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),')',
            ANSI_REVERSE,'[-]',ANSI_RESET,'    : ');

        END;    { EDF$K_MEAN_RECORD_SIZE }

        EDF$K_SURFACE_OPTION :

        BEGIN

            { +
            See which surface.
            - }
            CLEAR (IF_FULL_PROMPT);

            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

            BEGIN

                WRITELN (
                SHIFT,
                '               ',
                ANSI_REVERSE,
                ' Key',IDATA[EDF$K_ACTIVE_KEY]:3,' Graph Type Selection ',
                ANSI_RESET,
                CRLF,
                CRLF_SHIFT,
    'Line       Bucket Size vs Index Depth      as a 2 dimensional plot',
                CRLF_SHIFT,
    'Fill       Bucket Size vs     Load Fill Percent     vs Index Depth',
                CRLF_SHIFT,
    'Key        Bucket Size vs         Key Length        vs Index Depth'
                );

                IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

                BEGIN

WRITELN (SHIFT,
'Record Bucket Size vs        Record Size        vs Index Depth',
CRLF_SHIFT,
'Init   Bucket Size vs Initial Load Record Count vs Index Depth',
CRLF_SHIFT,
'Add    Bucket Size vs  Additional Record Count  vs Index Depth');

                END;

                WRITELN;

            END

            ELSE

            BEGIN

                WRITE (SHIFT,'(Line Fill Key');

                IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

                    WRITE (' Record Init Add)')

                ELSE

                    WRITE (')');

                WRITELN;

            END;          { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

            { +
            Always ask the question, even for brief prompting.
            - }
            WRITE (SHIFT,'Graph type to display         (Keyword)[');

            CASE QTAB[QTAB_OFFSET].DEFAULT OF

                EDF$K_LINE_SURFACE :     WRITE ('Line]    : ');
                EDF$K_FILL_SURFACE :     WRITE ('Fill]    : ');
                EDF$K_KEY_SURFACE :      WRITE ('Key]     : ');
                EDF$K_SIZE_SURFACE :     WRITE ('Rec]     : ');
                EDF$K_INIT_SURFACE :     WRITE ('Init]    : ');
                EDF$K_ADDED_SURFACE :    WRITE ('Add]     : ');

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

        END;    { EDF$K_SURFACE_OPTION }

        EDF$K_GRANULARITY :

        BEGIN

            { +
            See what level of granularity.
            - }
            CLEAR (IF_FULL_PROMPT);

            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

            BEGIN

                WRITELN (
                SHIFT,
                '                    ',
                ANSI_REVERSE,
                ' Area Granularity Selection ',
                ANSI_RESET);

                IF DEC_CRT THEN

                BEGIN

                WRITELN (CRLF,LOW_SHIFT,
'   '(27)')0'(14)'lqqqqqqqqqqqqqk'(15)'     '(14)'lqqqqqqqqqqqqqk'(15)'     '(14)'lqqqqqqqqqqqqqk'(15)'     '(14)'lq
                CRLF,LOW_SHIFT,
' 0 '(14)'x'(15)' Key 0 Data  '(14)'x'(15)'   0 '(14)'x'(15)' Key 0 Data  '(14)'x'(15)'   0 '(14)'x'(15)' Key 0 Data
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'             '(14)'x'(15)'     '(14)'tqqqqqqqqqqqqqu'(15)'     '(14)'tqqqqqqqqqqqqqu'(15)'     '(14
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key 0 Index '(14)'x'(15)'   1 '(14)'x'(15)' Key 0 Index '(14)'x'(15)'   1 '(14)'x'(15)' Key 0 Inde
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'             '(14)'x'(15)'     '(14)'x'(15)'             '(14)'x'(15)'     '(14)'tqqqqqqqqqqqqqu'(1
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key n Data  '(14)'x'(15)'     '(14)'x'(15)' Key n Data  '(14)'x'(15)'   2 '(14)'x'(15)' Key n Data
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'                '(14)'x'(15)'     '(14)'x'(15)'                '(14)'x'(15)'     '(14)'x'(15)'
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key n Index '(14)'x'(15)'     '(14)'x'(15)' Key n Index '(14)'x'(15)'     '(14)'x'(15)' Key n Inde
                CRLF,LOW_SHIFT,
'   '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqqq
                CRLF,LOW_SHIFT,
'       One (1)                Two (2)              Three (3)           Four (4)',
                CRLF)

                END     { IF DEC_CRT }

                ELSE

                BEGIN

                WRITELN (CRLF,LOW_SHIFT,
'   +-------------+    +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
' 0 ¦ Key 0 Data  ¦  0 ¦ Key 0 Data  ¦   0 ¦ Key 0 Data  ¦   0 ¦ Key 0 Data  ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦    +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key 0 Index ¦  1 ¦ Key 0 Index ¦   1 ¦ Key 0 Index ¦   1 ¦ Key 0 Index ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦    ¦             ¦     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key n Data  ¦    ¦ Key n Data  ¦   2 ¦ Key n Data  ¦   2 ¦ Key n Data  ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦    ¦             ¦     ¦             ¦     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key n Index ¦    ¦ Key n Index ¦     ¦ Key n Index ¦   3 ¦ Key n Index ¦',
                CRLF,LOW_SHIFT,
'   +-------------+    +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'       One (1)                Two (2)              Three (3)           Four (4)',
                CRLF);

                END;    { IF NOT DEC_CRT }

            END

            ELSE

            BEGIN

                WRITELN (SHIFT,'(One Two Three Four Double)');

            END;        { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

            { +
            Always ask the question, even for brief prompting.
            - }
            WRITELN (SHIFT,'(Type "Double" to allocate 2 areas per key)');
            WRITE (SHIFT,
            'Number of areas to allocate        (keyword)[Three] : ');

        END;    { EDF$K_GRANULARITY }
```

```
EDF$K_SET_FUNCTION :

BEGIN

    { +
    See what char to set.
    - }
    CLEAR (IF_FULL_PROMPT);

    IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

    BEGIN

        WRITELN (
        SHIFT,
        '                ',
        ANSI_REVERSE,
        ' FDL Editor SET Function ',
        ANSI_RESET,
        CRLF,
        CRLF_SHIFT,
        'Analysis        filespec of FDL Analysis file',
        CRLF_SHIFT,
        'Display                 type of graph to display',
        CRLF_SHIFT,
        'Emphasis        of default bucketsize calculations',
        CRLF_SHIFT,
        'Granularity     number of areas in Indexed files',
        CRLF_SHIFT,
        'Number_Keys     number of keys in Indexed files',
        CRLF_SHIFT,
        'Output          filespec of FDL Output file',
        CRLF_SHIFT,
        'Prompting       Full or Brief prompting of menus',
        CRLF_SHIFT,
        'Responses       usage of default responses in scripts',
        CRLF);

    END

    ELSE

    BEGIN

        WRITELN (SHIFT,
        '(Analysis Display Emphasis Granularity',
        CRLF_SHIFT,' Number_Keys Output Prompting Responses)');

    END;        { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

    { +
    Always ask the question, even for brief prompting.
    - }
    WRITE (SHIFT,
    'Editor characteristic to set      (keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');
```

```
END;    { EDF$K_SET_FUNCTION }

EDF$K_MAX_RECORD_SIZE :

BEGIN

    WRITE (SHIFT,'Maximum Record Size           (');

    IF IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_REL_DESIGN_FDL THEN

    BEGIN

        EXTRA   := 0;
        WRITE (
        LOWMAX:NUM_LEN(LOWMAX),'-',
        CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),')',
        ANSI_REVERSE,'[=]',ANSI_RESET);
        QTAB[QTAB_OFFSET].DEFAULT_OK    := FALSE;

    END

    ELSE

    BEGIN

        EXTRA   := 2;
        WRITE ('0,',
        LOWMAX:NUM_LEN(LOWMAX),'-',CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),
        ')[0]');
        QTAB[QTAB_OFFSET].DEFAULT_OK    := TRUE;
        QTAB[QTAB_OFFSET].DEFAULT       := 0;

    END;

    IF (
    ( EXTRA + NUM_LEN(LOWMAX) + NUM_LEN(CUR_MAX_REC) ) > 9
    ) THEN

        WRITE (' : ')

    ELSE

        WRITE ('        : ');

END;    { EDF$K_MAX_RECORD_SIZE }

EDF$K_TEST_PRIMARY :

BEGIN

    CLEAR (IF_FULL_PROMPT);

    IF FULL_CHOICE THEN

    BEGIN

```

```
                        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                        BEGIN

        WRITELN (SHIFT,'                 ',
        ANSI_REVERSE,
        ' Legal Primary Attributes ',
        ANSI_RESET,
        CRLF,
        CRLF_SHIFT,
        'ACCESS attributes set the run-time access mode of the file',
        CRLF_SHIFT,
        'AREA x attributes define the characteristics of file area x',
        CRLF_SHIFT,
        'CONNECT        attributes set various RMS run-time options',
        CRLF_SHIFT,
        'DATE   attributes set the date parameters of the file',
        CRLF_SHIFT,
        'FILE   attributes affect the entire RMS data file',
        CRLF_SHIFT,
        'JOURNAL        attributes set the journaling parameters of the file',
        CRLF_SHIFT,
        'KEY y  attributes define the characteristics of key y',
        CRLF_SHIFT,
        'RECORD attributes set the non-key aspects of each record',
        CRLF_SHIFT,
        'SHARING        attributes set the run-time sharing mode of the file',
        CRLF_SHIFT,
        'SYSTEM attributes document operating system-specific items',
        CRLF_SHIFT,
        'TITLE  is the header line for the FDL file',
        CRLF);

        (* insert in above to handle ACLs
        'ACL    entries specify the Access-Control-List of the file',
        CRLF_SHIFT,
        *)

                        END

                        ELSE
                            WRITELN (SHIFT,
                            '(ACCESS AREA CONNECT DATE FILE JOURNAL',
                            CRLF_SHIFT,
                            ' KEY RECORD SHARING SYSTEM TITLE)');

        (* ACL insert in above to handle ACLs *)

                    END

                    ELSE

                    BEGIN

                        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                        BEGIN
                        WRITELN (
                        SHIFT,'             ',
                        ANSI_REVERSE,
                        ' Current Primary Attributes ',
                        ANSI_RESET,
                        CRLF
                        );

                        { +
                        Setup to display definition on the terminal.
                        - }
                        OPEN        (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                                    RECORD_LENGTH := 252);
                        REWRITE     (FDL_DEST);

                        SHOW_ALL_PRIMARIES;

                        CLOSE       (FDL_DEST);

                    END

                    ELSE

                        WRITELN (SHIFT,
                        '(Type "?" for a list of existing Primary Attributes)');

                END;

                { +
                Pop the question.
                - }
                WRITE (SHIFT,'Enter Desired Primary         (Keyword)[',
                DEFAULT_PRIMARY:PRIMARY_WIDTH[DEFAULT_PRIMARY]);

                IF DEFAULT_PRIMARY IN [ AREA, KEY ] THEN

                    WRITE (' ',DEFAULT_PRINUM:NUM_LEN(DEFAULT_PRINUM));

                WRITE ('] : ');

            END;    { EDF$K_TEST_PRIMARY }

        OTHERWISE

            { NULL-STATEMENT } ;

        END;        { CASE }

    END;    { WRITE_QUESTION }
```

```
{ ++

SPREAD_LOW_HIGH -- Routine to make sure high-bound is 5 away from low-bound.

This procedure adjusts Y_LOW,Y_HIGH until high-bound >= low-bound.

CALLING SEQUENCE:

SPREAD_LOW_HIGH (LO_LIM,HI_LIM);

INPUT PARAMETERS:

LO_LIM
HI_LIM

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE SPREAD_LOW_HIGH ( LO_LIM, HI_LIM : INTEGER );

BEGIN

    { +
    Make sure the bounds are at least 5 apart.
    - }
    IF (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) < 5 THEN

    BEGIN

        REPEAT

            IF IDATA[EDF$K_Y_LOW] > LO_LIM THEN

                IDATA[EDF$K_Y_LOW]      := IDATA[EDF$K_Y_LOW] - 1;

            IF IDATA[EDF$K_Y_HIGH] < HI_LIM THEN

                IDATA[EDF$K_Y_HIGH]     := IDATA[EDF$K_Y_HIGH] + 1;

        UNTIL (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) > 4;

    END;

END;    { SPREAD_LOW_HIGH }
```

```
{ ++

AUTO_SCALE -- Scale a surface plot.

This procedure adjusts Y_LOW,Y_HIGH,Y_INCR until the plot fits on the screen.

CALLING SEQUENCE:

AUTO_SCALE (LOW_LIMIT,HIGH_LIMIT);

INPUT PARAMETERS:

LOW_LIMIT
HIGH_LIMIT

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE AUTO_SCALE ( LOW_LIMIT, HIGH_LIMIT : INTEGER );

BEGIN

    { +
    Figure out what the step between lines should be.
    We always have max_array_row steps.
    - }
    TEMP_INT2   := IDATA[EDF$K_Y_HIGH];
    TEMP_REAL   := (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) / MAX_ARRAY_ROW;

    IDATA[EDF$K_Y_INCR] := TRUNC (TEMP_REAL);

    IF ((IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) MOD MAX_ARRAY_ROW) > 0 THEN

        IDATA[EDF$K_Y_INCR]     := IDATA[EDF$K_Y_INCR] + 1;

    { +
    Juggle the margins and the step until we get it to fit.
    - }
    REPEAT

        IDATA[EDF$K_Y_HIGH]     := IDATA[EDF$K_Y_LOW]
                                          + (MAX_ARRAY_ROW * IDATA[EDF$K_Y_INCR]);

        { +
        Adjust down if too high.
        - }
        WHILE IDATA[EDF$K_Y_HIGH] > HIGH_LIMIT DO

        BEGIN

            IDATA[EDF$K_Y_LOW]          := IDATA[EDF$K_Y_LOW] - 1;
            IDATA[EDF$K_Y_HIGH]         := IDATA[EDF$K_Y_HIGH] - 1;

        END;

        { +
        Adjust up if too low.
        - }
        WHILE IDATA[EDF$K_Y_LOW] < LOW_LIMIT DO

        BEGIN

            IDATA[EDF$K_Y_LOW]          := IDATA[EDF$K_Y_LOW] + 1;
            IDATA[EDF$K_Y_HIGH]         := IDATA[EDF$K_Y_HIGH] + 1;

        END;

        { +
        Try a smaller step if this didn't work.
        - }
        IF (IDATA[EDF$K_Y_LOW] < LOW_LIMIT) OR (IDATA[EDF$K_Y_HIGH] > HIGH_LIMIT) THEN

            IDATA[EDF$K_Y_INCR]         := IDATA[EDF$K_Y_INCR] - 1;

    UNTIL (IDATA[EDF$K_Y_LOW] >= LOW_LIMIT) AND (IDATA[EDF$K_Y_HIGH] <= HIGH_LIMIT);
```

```

              { +
              Adjust the range up if we've squeezed it low.
              - }
              IF IDATA[EDF$K_Y_HIGH] < TEMP_INT2 THEN

              BEGIN

                  IDATA[EDF$K_Y_LOW]      := IDATA[EDF$K_Y_LOW]
                                                  + (TEMP_INT2 - IDATA[EDF$K_Y_HIGH]);
                  IDATA[EDF$K_Y_HIGH]     := IDATA[EDF$K_Y_HIGH]
                                                  + (TEMP_INT2 - IDATA[EDF$K_Y_HIGH]);

              END;

            END;    { AUTO_SCALE }
```

```
{ ++

ALT_SOURCE -- Look for the answer elsewhere.

This function can look in the definition linked list or the analysis linked
list, if it is determined that asking the user isn't appropriate.

CALLING SEQUENCE:

BOOLEAN_VAR := ALT_SOURCE (LINE_OBJECT_TYPE,PRIMARY,PRINUM,SECONDARY,SECNUM,AN_FLAG);

INPUT PARAMETERS:

OBJECT_TYPE
PRIMARY
PRINUM
SECONDARY
SECNUM
AN_FLAG

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if the question should be asked, FALSE if it should be skipped.

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
FUNCTION ALT_SOURCE (
                        OBJ_TYP         : LINE_OBJECT_TYPE;
                        PRIM            : PRIMARY_TYPE;
                        PRIMNUM         : INTEGER;
                        SECO            : SECONDARY_TYPE;
                        SECONUM         : INTEGER;
                        AN_FLAG         : BOOLEAN
                        ) : BOOLEAN;

BEGIN

    { +
    Initial setup for GLOBAL_COUNT question.
    - }
    IF QTAB_OFFSET = EDF$K_GLOBAL_COUNT THEN

        GLOBAL_SET                := FALSE;

    { +
    Should the question be visible?
    The questions asking compression percent are never visible and should
    always be found in the analysis file.
    - }
    IF (
    ((VISIBLE_QUESTION) OR (NOT OPTIMIZING))
    AND
    ( NOT (QTAB_OFFSET IN [ EDF$K_DATA_RECORD_COMP, EDF$K_DATA_KEY_COMP,
                                  EDF$K_INDEX_RECORD_COMP ]))
    ) THEN

    BEGIN

        ALT_SOURCE      := TRUE;

    END

    ELSE IF OPTIMIZING THEN

    BEGIN

        { +
        Try to get the data from the alternate source.
        - }
        IF AN_FLAG THEN

            POINT_AT_ANALYSIS;

        IF FIND_OBJECT (OBJ_TYP,PRIM,PRIMNUM,SECO,SECONUM) THEN

        BEGIN

            ALT_SOURCE  := FALSE;

            CASE QTAB_OFFSET OF

                EDF$K_KEY_NAME,
                EDF$K_FDL_TITLE,
EDF$K_DATA_FILE_NAME :

BEGIN

    LIB$SCOPY_DXDX (DEF_CURRENT^.STRING,SDATA[QTAB_OFFSET]);
    BDATA[QTAB_OFFSET]  := TRUE;

END;

EDF$K_NUMBER_DUPS,
EDF$K_DESIRED_FILL,
EDF$K_CONTROL_SIZE,
EDF$K_MAX_RECORD_SIZE,
EDF$K_MEAN_RECORD_SIZE,
EDF$K_DATA_KEY_COMP,
EDF$K_DATA_RECORD_COMP,
EDF$K_CLUSTER_SIZE,
EDF$K_PROLOGUE_VERSION,
EDF$K_INDEX_RECORD_COMP :

BEGIN

    IDATA[QTAB_OFFSET]  := DEF_CURRENT^.NUMBER;
    INPUT_VALUE         := IDATA[QTAB_OFFSET];

END;

EDF$K_KEY_TYPE,
EDF$K_CARR_CTRL,
EDF$K_RECORD_FORMAT :

BEGIN

    IDATA[QTAB_OFFSET]  := DEF_CURRENT^.QUALIFIER;
    INPUT_VALUE         := IDATA[QTAB_OFFSET];

END;

EDF$K_KEY_POSITION :

BEGIN

    IDATA[QTAB_OFFSET]                      := DEF_CURRENT^.NUMBER;
    INPUT_VALUE                             := IDATA[QTAB_OFFSET];
    SEGMENT_POSITION[SEGMENT_NUMBER]        := INPUT_VALUE;

END;

EDF$K_KEY_SIZE :

BEGIN

    IDATA[QTAB_OFFSET]                      := DEF_CURRENT^.NUMBER;
    INPUT_VALUE                             := IDATA[QTAB_OFFSET];
    SEGMENT_LENGTH[SEGMENT_NUMBER]          := INPUT_VALUE;

END;
```

```
        EDF$K_GLOBAL_COUNT :

        BEGIN

            IDATA[QTAB_OFFSET]  := DEF_CURRENT^.NUMBER;
            INPUT_VALUE         := IDATA[QTAB_OFFSET];
            GLOBAL_SET          := TRUE;

        END;    { EDF$K_GLOBAL_COUNT }

        EDF$K_KEY_DUPS,
        EDF$K_KEY_CHANGES,
        EDF$K_KEY_COMP_WANTED,
        EDF$K_REC_COMP_WANTED,
        EDF$K_IDX_COMP_WANTED :

        BEGIN

            BDATA[QTAB_OFFSET]  := DEF_CURRENT^.SWITCH;

            IF DEF_CURRENT^.SWITCH THEN

                INPUT_VALUE     := EDF$K_YES

            ELSE

                INPUT_VALUE     := EDF$K_NO;

        END;    { EDF$K_KEY_DUPS }

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

END     { IF FOUND }

ELSE

BEGIN

    { +
    We couldn't find it - ask the user directly.
    - }
    ALT_SOURCE  := TRUE;

    { +
    Unless we're in /NOINTERACTIVE, in which case,
    exit with an error.
    - }
    IF (
    (AUTO_TUNE)
    AND
    (QTAB_OFFSET IN [ EDF$K_INITIAL_COUNT, EDF$K_KEY_SIZE,
     EDF$K_MEAN_RECORD_SIZE ])
```

```
            ) THEN

                LIB$STOP (EDF$_INSFANL,0,0,0);

            IF (QTAB_OFFSET IN [ EDF$K_DATA_RECORD_COMP, EDF$K_DATA_KEY_COMP,
                                EDF$K_INDEX_RECORD_COMP ]) THEN

            BEGIN

                ALT_SOURCE              := FALSE;
                RDATA[QTAB_OFFSET]      := 0.0;

            END;

        END;    { IF NOT FOUND }

        POINT_AT_DEFINITION;

    END;        { IF FALSE (VISIBLE_QUESTION) OR (NOT OPTIMIZING) }

END;    { ALT_SOURCE }
```

```
{ ++

PRE_PROCESS -- Routine to setup question.

This function does any needed calculations before asking the question.

CALLING SEQUENCE:

status := PRE_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION PRE_PROCESS : BOOLEAN;

VAR
    RECORD_OVERHEAD      : INTEGER;
    TEMP_KEY_SIZE        : INTEGER;
    RESULT               : BOOLEAN;

BEGIN

    { +
    Assume success.
    - }
    PRE_PROCESS             := TRUE;

    CASE QTAB_OFFSET OF

        EDF$K_SURFACE_OPTION :

            IF (
            (IDATA[EDF$K_ACTIVE_KEY] <> 0)
            AND
            ( NOT (QTAB[QTAB_OFFSET].DEFAULT IN [ EDF$K_LINE_SURFACE,
                        EDF$K_FILL_SURFACE, EDF$K_KEY_SURFACE ]))
            ) THEN

                QTAB[QTAB_OFFSET].DEFAULT        := EDF$K_LINE_SURFACE;

        EDF$K_ADDED_COUNT_HIGH,
        EDF$K_INITIAL_COUNT_HIGH :

            IF IDATA[EDF$K_Y_LOW] = 0 THEN

                DEF     := 100000

            ELSE

                DEF     := 50 * IDATA[EDF$K_Y_LOW];

        EDF$K_KEY_LOW :

        BEGIN

            { +
            See how far we can go.
            - }
            IF (
            (IDATA[EDF$K_MAX_RECORD_SIZE] = 0)
            OR
            (IDATA[EDF$K_MAX_RECORD_SIZE] > 255)
            ) THEN

                MAX_KEY_SIZE    := 255

            ELSE

                MAX_KEY_SIZE    := IDATA[EDF$K_MAX_RECORD_SIZE];

                QTAB[QTAB_OFFSET].HIGH_BOUND          := MAX_KEY_SIZE;
                QTAB[QTAB_OFFSET+1].HIGH_BOUND        := MAX_KEY_SIZE;
                QTAB[QTAB_OFFSET+1].DEFAULT           := MAX_KEY_SIZE;

            END;    { EDF$K_KEY_LOW }

            EDF$K_DATA_KEY_COMP :

            BEGIN

                PRE_PROCESS          := FALSE;
                IDATA[QTAB_OFFSET]   := 0;

                IF (
                (VDATA[EDF$K_PROLOGUE_VERSION])
                AND
                (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
                ) THEN

                    RESULT           := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
                            IDATA[EDF$K_ACTIVE_KEY],DATA_KEY_COMPRESSION$,0,TRUE);

            END;    { EDF$K_DATA_KEY_COMP }

            EDF$K_DATA_RECORD_COMP :

            BEGIN

                PRE_PROCESS          := FALSE;
                IDATA[QTAB_OFFSET]   := 0;

                IF (
                (VDATA[EDF$K_PROLOGUE_VERSION])
                AND
                (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
                ) THEN

                    RESULT           := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
                            IDATA[EDF$K_ACTIVE_KEY],DATA_RECORD_COMPRESSION$,0,TRUE);

            END;    { EDF$K_DATA_RECORD_COMP }

            EDF$K_INDEX_RECORD_COMP :

            BEGIN

                PRE_PROCESS          := FALSE;
                IDATA[QTAB_OFFSET]   := 0;

                IF (
                (VDATA[EDF$K_PROLOGUE_VERSION])
                AND
                (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
                ) THEN

                    RESULT           := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
                            IDATA[EDF$K_ACTIVE_KEY],INDEX_COMPRESSION$,0,TRUE);
```

```
END;    { EDF$K_INDEX_RECORD_COMP }

EDF$K_KEY_POSITION :

BEGIN

    { +
    See how far we can go.
    - }
    IF BDATA[EDF$K_SEGMENTED] THEN

    BEGIN

        TEMP_KEY_SIZE   := 0;

        FOR TEMP_INT2 := 0 TO 7 DO

        BEGIN

            IF SEGMENT_WANTED[TEMP_INT2] THEN

                TEMP_KEY_SIZE   := TEMP_KEY_SIZE +
                                        SEGMENT_LENGTH[TEMP_INT2];

        END;

    END

    ELSE

        TEMP_KEY_SIZE   := IDATA[EDF$K_KEY_SIZE];

    IF IDATA[EDF$K_MAX_RECORD_SIZE] = 0 THEN

        MAX_KEY_POSITION        := CUR_MAX_REC - TEMP_KEY_SIZE

    ELSE

        MAX_KEY_POSITION        := IDATA[EDF$K_MAX_RECORD_SIZE]
                                          - TEMP_KEY_SIZE;

    QTAB[QTAB_OFFSET].HIGH_BOUND        := MAX_KEY_POSITION;

    PRE_PROCESS := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                        SEG_POSITION,SEGMENT_NUMBER,FALSE);

END;    { EDF$K_KEY_POSITION }

EDF$K_KEY_DIST :

    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_KEY_DIST])
    ) THEN
```

```
        IF IDATA[EDF$K_ADDED_COUNT] > 0 THEN

            PRE_PROCESS         := TRUE

        ELSE

        BEGIN

            BDATA[QTAB_OFFSET]  := TRUE;
            PRE_PROCESS         := FALSE;

        END

    ELSE

        PRE_PROCESS             := FALSE;

EDF$K_KEY_CHANGES :

    IF IDATA[EDF$K_ACTIVE_KEY] <> 0 THEN

        PRE_PROCESS     := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                        CHANGES,0,FALSE)

    ELSE

    BEGIN

        PRE_PROCESS             := FALSE;
        BDATA[QTAB_OFFSET]      := FALSE;

    END;

EDF$K_KEY_DUPS :

BEGIN

    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        QTAB[QTAB_OFFSET].DEFAULT       := EDF$K_NO

    ELSE

        QTAB[QTAB_OFFSET].DEFAULT       := EDF$K_YES;

    PRE_PROCESS := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
            DUPLICATES,0,FALSE);

END;    { EDF$K_KEY_DUPS }

EDF$K_NUMBER_KEYS :

    PRE_PROCESS := (
                        (VISIBLE_QUESTION)
                        OR
                        (NOT NUMBER_KEYS_SET)
```

```
                    );

EDF$K_CLUSTER_SIZE :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet. Or unless we're optimizing.
    - }
    IF OPTIMIZING THEN

        PRE_PROCESS     := ALT_SOURCE (SEC,FILE$,0,CLUSTER_SIZE,0,TRUE)

    ELSE

        PRE_PROCESS     := (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[EDF$K_ADDED_COUNT])
                );

END;    { EDF$K_CLUSTER_SIZE }

EDF$K_KEY_COMP_WANTED :

BEGIN

    PRE_PROCESS         := FALSE;
    BDATA[QTAB_OFFSET]  := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
                IDATA[EDF$K_ACTIVE_KEY],DATA_KEY_COMPRESSION,0,FALSE);

END;    { EDF$K_DATA_RECORD_WANTED }

EDF$K_REC_COMP_WANTED :

BEGIN

    PRE_PROCESS         := FALSE;
    BDATA[QTAB_OFFSET]  := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    AND
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
             IDATA[EDF$K_ACTIVE_KEY],DATA_RECORD_COMPRESSION,0,FALSE);

END;    { EDF$K_REC_COMP_WANTED }

EDF$K_IDX_COMP_WANTED :

BEGIN

    PRE_PROCESS         := FALSE;
    BDATA[QTAB_OFFSET]  := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
                IDATA[EDF$K_ACTIVE_KEY],INDEX_COMPRESSION,0,FALSE);

END;    { EDF$K_IDX_COMP_WANTED }

EDF$K_NUMBER_DUPS :

BEGIN

    PRE_PROCESS                 := FALSE;
    IDATA[EDF$K_NUMBER_DUPS]    := 0;

    RESULT      := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
            IDATA[EDF$K_ACTIVE_KEY],DUPLICATES_PER_SIDR,0,TRUE);

END;

EDF$K_SEGMENTED :

BEGIN

    FOR TEMP_INT2 := 0 TO 7 DO

    BEGIN

        SEGMENT_WANTED[TEMP_INT2]       := FALSE;
        SEGMENT_POSITION[TEMP_INT2]     := 0;
        SEGMENT_LENGTH[TEMP_INT2]       := 0;

    END;

    BDATA[QTAB_OFFSET]  := FALSE;
    IF IDATA[EDF$K_KEY_TYPE] <> FDL$C_STG THEN

          PRE_PROCESS       := FALSE;

END;

EDF$K_GLOBAL_WANTED :

BEGIN

    { +
    Set global_wanted by the presence or absence of a
    global buffer count secondary in the list, when optimizing.
    THIS DOESN'T USE ALT_SOURCE BECAUSE IT DOESN'T GET THE
    CONTENTS OF THE SECONDARY IN THE LIST, BUT DECIDES ON THE
    BASIS OF ITS EXISTENCE.
    - }
    IF OPTIMIZING THEN

    BEGIN

        IF FIND_OBJECT (SEC,FILE$,0,GLOBAL_BUFFER_COUNT,0) THEN

            INPUT_VALUE         := EDF$K_YES

        ELSE

            INPUT_VALUE         := EDF$K_NO;

        PRE_PROCESS             := FALSE;

    END;

END;    { EDF$K_GLOBAL_WANTED }

EDF$K_GLOBAL_COUNT :

BEGIN

    PRE_PROCESS := FALSE;
    RESULT      := ALT_SOURCE (SEC,FILE$,0,GLOBAL_BUFFER_COUNT,0,FALSE);

END;

EDF$K_INITIAL_COUNT :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet.
    - }
    PRE_PROCESS := (
            (IDATA[EDF$K_ACTIVE_KEY] = 0)
            OR
            (NOT VDATA[QTAB_OFFSET])
            );
    IF OPTIMIZING THEN

    BEGIN

        POINT_AT_ANALYSIS;

        IF FIND_OBJECT (SEC,ANALYSIS_OF_KEY,0,DATA_RECORD_COUNT,0) THEN

            OLD_COUNT   := DEF_CURRENT^.NUMBER

        ELSE

            OLD_COUNT   := 0;

        POINT_AT_DEFINITION;

        QTAB[QTAB_OFFSET].DEFAULT_OK    := TRUE;
        QTAB[QTAB_OFFSET].DEFAULT       := OLD_COUNT;

    END

    ELSE

        QTAB[QTAB_OFFSET].DEFAULT_OK    := FALSE;

END;    { EDF$K_INITIAL_COUNT }

EDF$K_ASCENDING_LOAD :

    { +
    This question shouldn't be asked if we're doing a conv/fast,
    or for alternate keys, unless it hasn't been asked yet.
    - }
    PRE_PROCESS := (
                (IDATA[EDF$K_INITIAL_COUNT] > 0)
            AND
                (IDATA[EDF$K_LOAD_METHOD] <> EDF$K_FAST_CONVERT)
            AND
                (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[EDF$K_ASCENDING_LOAD])
                )
            );

EDF$K_ADDED_COUNT :

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet.
    - }
    PRE_PROCESS := (
            (IDATA[EDF$K_ACTIVE_KEY] = 0)
            OR
            (NOT VDATA[EDF$K_ADDED_COUNT])
            );
```

```

EDF$K_LOAD_METHOD :

BEGIN

    IF IDATA[EDF$K_INITIAL_COUNT] > 0 THEN

        RESULT  := (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[QTAB_OFFSET])
                )

    ELSE

    BEGIN

        { +
        If we have no initial load, default it to rms puts
        - }
        IDATA[QTAB_OFFSET]      := EDF$K_RMS_PUTS;
        RESULT                  := FALSE;

    END;        { IF FALSE IDATA[EDF$K_INITIAL_COUNT] > 0 }

    IF NOT RESULT THEN

        INPUT_VALUE             := IDATA[QTAB_OFFSET];

    PRE_PROCESS                 := RESULT;

END;    { EDF$K_LOAD_METHOD }

EDF$K_BLOCK_SPAN :

BEGIN

    IF IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_SEQ_DESIGN_FDL THEN

        PRE_PROCESS     := TRUE

    ELSE

    BEGIN

        PRE_PROCESS             := FALSE;
        INPUT_VALUE             := EDF$K_YES;

    END;

END;    { EDF$K_BLOCK_SPAN }

EDF$K_DATA_FILE_NAME :

BEGIN

    MAX_STRING_ANSWER_LENGTH    := 126;
    BDATA[QTAB_OFFSET]           := FALSE;

    IF OPTIMIZING THEN

        PRE_PROCESS      :=
            ALT_SOURCE (SEC,FILES,0,NAME,0,FALSE);

END;    { EDF$K_DATA_FILE_NAME }

EDF$K_FDL_TITLE :

BEGIN

    MAX_STRING_ANSWER_LENGTH     := 126;
    BDATA[QTAB_OFFSET]           := FALSE;

    IF OPTIMIZING THEN

        PRE_PROCESS      :=
            ALT_SOURCE (PRI,TITLE,0,DUMMY_SECONDARY$,0,FALSE);

END;    { EDF$K_FDL_TITLE }

EDF$K_KEY_NAME :

BEGIN

    MAX_STRING_ANSWER_LENGTH     := 32;
    BDATA[QTAB_OFFSET]           := FALSE;

    IF OPTIMIZING THEN

        PRE_PROCESS      :=
            ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],NAMES,0,FALSE);

END;

EDF$K_ANALYSIS,
EDF$K_OUTPUT :

BEGIN

    MAX_STRING_ANSWER_LENGTH     := 126;
    BDATA[QTAB_OFFSET]           := FALSE;

    IF OPTIMIZING THEN

        PRE_PROCESS              := FALSE;

END;

EDF$K_ASCENDING_ADDED :

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet.
    - }
    PRE_PROCESS := (
            (IDATA[EDF$K_ADDED_COUNT] > 0)
            AND
                ((IDATA[EDF$K_ACTIVE_KEY] = 0)
                 OR
                (NOT VDATA[EDF$K_ASCENDING_ADDED]))
            );

EDF$K_BLOCKS_IN_BUCKET :

BEGIN

    QTAB[QTAB_OFFSET].DEFAULT    := BUCKET_DEFAULT;

    { +
    Calculate the bucket overhead.
    THIS QUESTION IS ONLY FOR INDEXED_DESIGN.
    - }
    BUCKET_OVERHEAD     := CALC_BUC_OVERHEAD(0);

    { +
    See what the smallest allowable bucketsize is.
    - }
    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        ENTRY_SIZE      := IDATA[EDF$K_MAX_RECORD_SIZE]

    ELSE

    BEGIN

        IF BDATA[EDF$K_SEGMENTED] THEN

        BEGIN

            ENTRY_SIZE  := 0;

            FOR TEMP_INT2 := 0 TO 7 DO

            BEGIN

                IF SEGMENT_WANTED[TEMP_INT2] THEN

                    ENTRY_SIZE  := ENTRY_SIZE +
                                   SEGMENT_LENGTH[TEMP_INT2];

            END;

        END

        ELSE

            ENTRY_SIZE  := IDATA[EDF$K_KEY_SIZE];

    END;

    RECORD_OVERHEAD     := CALC_REC_OVERHEAD(0);
```

```

            MIN_BUCKET  := (ENTRY_SIZE + BUCKET_OVERHEAD + RECORD_OVERHEAD)
                                DIV 512;

            IF (
            (((ENTRY_SIZE + BUCKET_OVERHEAD + RECORD_OVERHEAD) MOD 512) <> 0)
            OR
            (MIN_BUCKET = 0)
            ) THEN

                MIN_BUCKET      := MIN_BUCKET + 1;

            QTAB[QTAB_OFFSET].LOW_BOUND := MIN_BUCKET;

            IF QTAB[QTAB_OFFSET].DEFAULT < QTAB[QTAB_OFFSET].LOW_BOUND THEN

                QTAB[QTAB_OFFSET].DEFAULT       := QTAB[QTAB_OFFSET].LOW_BOUND;

        END;    { EDF$K_BLOCKS_IN_BUCKET }

        EDF$K_KEY_SIZE :

        BEGIN

            { +
            Check according to key type.
            - }
            CASE IDATA[EDF$K_KEY_TYPE] OF

                FDL$C_BN2, FDL$C_IN2 :

                BEGIN

                    MAX_KEY_SIZE        := 2;
                    MIN_KEY_SIZE        := 2;

                END;

                FDL$C_BN4, FDL$C_IN4 :

                BEGIN

                    MAX_KEY_SIZE        := 4;
                    MIN_KEY_SIZE        := 4;

                END;

                FDL$C_BN8, FDL$C_IN8 :

                BEGIN

                    MAX_KEY_SIZE        := 8;
                    MIN_KEY_SIZE        := 8;

                END;

                FDL$C_PAC :
```

```

    BEGIN

        MAX_KEY_SIZE        := 16;
        MIN_KEY_SIZE        := 1;

    END;

    FDL$C_STG :

    BEGIN

        MAX_KEY_SIZE        := 255;
        MIN_KEY_SIZE        := 1;

    END;

OTHERWISE

    { NULL-STATEMENT } ;

END;        { CASE }

{ +
See how far we can go.
- }
IF (
(IDATA[EDF$K_MAX_RECORD_SIZE] <> 0)
AND
(IDATA[EDF$K_MAX_RECORD_SIZE] < MAX_KEY_SIZE)
) THEN

    MAX_KEY_SIZE    := IDATA[EDF$K_MAX_RECORD_SIZE];

QTAB[QTAB_OFFSET].LOW_BOUND         := MIN_KEY_SIZE;
QTAB[QTAB_OFFSET].HIGH_BOUND        := MAX_KEY_SIZE;

RESULT      :=
    ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],SEG_LENGTH,
                SEGMENT_NUMBER,FALSE);
PRE_PROCESS := RESULT;

IF (
(RESULT)
AND
(QTAB[QTAB_OFFSET].LOW_BOUND = QTAB[QTAB_OFFSET].HIGH_BOUND)
) THEN

BEGIN

    PRE_PROCESS                     := FALSE;
    INPUT_VALUE                     := QTAB[QTAB_OFFSET].LOW_BOUND;
    IDATA[QTAB_OFFSET]              := INPUT_VALUE;
    SEGMENT_LENGTH[SEGMENT_NUMBER]  := INPUT_VALUE;

END;

```

```
END;    { EDF$K_KEY_SIZE }

EDF$K_PROLOGUE_VERSION :

BEGIN

    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_PROLOGUE_VERSION])
    ) THEN

        PRE_PROCESS      :=
        ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],PROLOGUE,0,FALSE)

    ELSE

        PRE_PROCESS      := FALSE;

END;

EDF$K_ACTIVE_KEY :

BEGIN

    { +
    Find out the range of existing keys (assume contiguous).
    - }
    SCAN_DEFINITION (TRUE);

    QTAB[QTAB_OFFSET].LOW_BOUND          := LOW_KEY;
    QTAB[QTAB_OFFSET].HIGH_BOUND         := HIGH_KEY;

    IF (
    (QTAB[QTAB_OFFSET].LOW_BOUND = QTAB[QTAB_OFFSET].HIGH_BOUND)
    ) THEN

    BEGIN

        PRE_PROCESS      := FALSE;
        INPUT_VALUE      := QTAB[QTAB_OFFSET].LOW_BOUND;

    END;

END;    { EDF$K_ACTIVE_KEY }

EDF$K_CARR_CTRL :

BEGIN

    { +
    Don't actually ask the question if the user is optimizing a key,
    or if it's an alternate key - unless it hasn't been asked yet.
    - }
    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_CARR_CTRL])
    ) THEN

        PRE_PROCESS     :=
                ALT_SOURCE (SEC,RECORD$,0,CARRIAGE_CONTROL,0,FALSE)

    ELSE

        PRE_PROCESS     := FALSE;

END;    { EDF$K_CARR_CTRL }

EDF$K_CONTROL_SIZE :

BEGIN

    { +
    The fixed portion of a record can't be larger than the record.
    - }
    IF IDATA[EDF$K_MEAN_RECORD_SIZE] < 256 THEN

        CUR_MAX_FIXED   := IDATA[EDF$K_MEAN_RECORD_SIZE]

    ELSE

        CUR_MAX_FIXED   := 255;

    QTAB[QTAB_OFFSET].HIGH_BOUND        := CUR_MAX_FIXED;

    PRE_PROCESS := ALT_SOURCE (SEC,RECORD$,0,CONTROL_FIELD_SIZE,0,FALSE);

END;            { EDF$K_CONTROL_SIZE }

EDF$K_KEY_TYPE :

BEGIN

    PRE_PROCESS :=
        ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],SEG_TYPE,7,FALSE);

END;            { EDF$K_KEY_TYPE }

EDF$K_DESIRED_FILL :

BEGIN

    { +
    Fill doesn't mean anything if we don't have any records.
    - }
    IF IDATA[EDF$K_INITIAL_COUNT] > 0 THEN

    BEGIN

        PRE_PROCESS     :=
                ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                DATA_FILL,0,FALSE)
    END         { IF TRUE IDATA[EDF$K_INITIAL_COUNT > 0 }

    ELSE

    BEGIN

        IDATA[EDF$K_DESIRED_FILL]       := 100;
        IDATA[EDF$K_FDL_FILL]           := 100;
        PRE_PROCESS                     := FALSE;

    END;

END;    { EDF$K_DESIRED_FILL }

EDF$K_MAX_RECORD_SIZE :

BEGIN

    { +
    Because mean_record_size includes fixed control area, and maximum
    record size doesn't, it's possible to get a mean that's larger
    than the max. Don't get confused by it.
    - }
    IF CUR_MAX_REC < IDATA[EDF$K_MEAN_RECORD_SIZE] THEN

        LOWMAX  := CUR_MAX_REC

    ELSE

        LOWMAX  := IDATA[EDF$K_MEAN_RECORD_SIZE];

    QTAB[QTAB_OFFSET].LOW_BOUND         := LOWMAX;
    QTAB[QTAB_OFFSET].HIGH_BOUND        := CUR_MAX_REC;

    PRE_PROCESS := ALT_SOURCE (SEC,RECORD$,0,SIZE,0,FALSE);

END;    { EDF$K_MAX_RECORD_SIZE }

EDF$K_SIZE_LOW :

                CUR_MAX_REC := (BKT$C_MAXBKTSIZ * 512) -
                          (CALC_BUC_OVERHEAD(0) + CALC_REC_OVERHEAD(0));

EDF$K_MEAN_RECORD_SIZE :

BEGIN

    { +
    Setup the max allowable record size.
    - }
    CASE IDATA[EDF$K_SCRIPT_OPTION] OF

        EDF$K_ADD_KEY_FDL,
        EDF$K_DELETE_KEY_FDL,
        EDF$K_IDX_DESIGN_FDL,
        EDF$K_REDESIGN_FDL,
        EDF$K_OPTIMIZE_FDL :
                CUR_MAX_REC := (BKT$C_MAXBKTSIZ * 512) -
                          (CALC_BUC_OVERHEAD(0) + CALC_REC_OVERHEAD(0));
        EDF$K_SEQ_DESIGN_FDL :  CUR_MAX_REC      := BIGGEST_SEQ_FIXED;
        EDF$K_REL_DESIGN_FDL :  IF VARIABLE_RECORDS THEN

                                    CUR_MAX_REC := BIGGEST_REL_VAR

                                ELSE

                                    CUR_MAX_REC := BIGGEST_REL_FIXED;

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

    IF (
    (IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_SEQ_DESIGN_FDL)
    AND
    (NOT BDATA[EDF$K_BLOCK_SPAN])
    ) THEN

        IF VARIABLE_RECORDS THEN

            CUR_MAX_REC := 510

        ELSE

            CUR_MAX_REC := 512;

    QTAB[QTAB_OFFSET].HIGH_BOUND        := CUR_MAX_REC;

    IF VARIABLE_RECORDS THEN

        PRE_PROCESS     :=
              ALT_SOURCE (SEC,ANALYSIS_OF_KEY,0,MEAN_DATA_LENGTH,0,TRUE)

    ELSE

        PRE_PROCESS     := ALT_SOURCE (SEC,RECORDS,0,SIZE,0,FALSE);

END;    { EDF$K_MEAN_RECORD_SIZE }

EDF$K_RECORD_FORMAT :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked before.
    - }
    IF (
    (NOT ISAM_ORG)
    OR
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
```

```
            (NOT VDATA[EDF$K_RECORD_FORMAT])
            ) THEN

                PRE_PROCESS     := ALT_SOURCE (SEC,RECORD$,0,FORMAT,0,FALSE)

            ELSE

                PRE_PROCESS     := FALSE;

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_DESIGN_CYCLE :

        BEGIN

            IF NOT AUTO_TUNE THEN

            BEGIN

                { +
                Display the current value of the file parameters.
                - }
                CLEAR (LOWER_AREA);

                { +
                Special support for the VT125. Turn on graphics mode, setup text.
                - }
                IF REGIS THEN

                BEGIN

                    WRITE (''(27)'Pp;');

                    IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

                        WRITE (
'P[27,285];T(W(I3))'' Key:    Good   '';T(W(I2))''Fair   '';T(W(I1))''Poor'';');

                    WRITELN ('P[27,320];T(W(I3))''');

                END;    { IF REGIS }

                WRITE (LOW_SHIFT,' ');

                WRITE ('PV-Prolog Version       ',IDATA[EDF$K_PROLOGUE_VERSION]:1,' ');
                WRITE ('KT-Key',
                IDATA[EDF$K_ACTIVE_KEY]:3,
                ' Type    ');

                CASE IDATA[EDF$K_KEY_TYPE] OF

                    FDL$C_BN2 :         WRITE ('   Bin2 ');
                    FDL$C_BN4 :         WRITE ('   Bin4 ');
                    FDL$C_BN8 :         WRITE ('   Bin8 ');
                    FDL$C_PAC :         WRITE ('Decimal ');
                    FDL$C_IN2 :         WRITE ('   Int2 ');
                    FDL$C_IN4 :         WRITE ('   Int4 ');
```

```
    FDL$C_IN8 :         WRITE ('   Int8 ');
    FDL$C_STG :         WRITE (' String ');

OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

WRITE ('EM-Emphasis  ');

IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

    WRITE ('     ');

IF IDATA[EDF$K_BUCKET_WEIGHT] = EDF$K_SMALLER_BUFFERS THEN

    WRITE ('Smaller')

ELSE

    WRITE ('Flatter');

IF IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE THEN

BEGIN

    BUCKET_DEFAULT      := NATURAL_DEPTH;
    WRITE (' (',BUCKET_DEFAULT:2,')');

END;

WRITELN;
WRITE (LOW_SHIFT,' ');

WRITE ('DK-Dup Key',
IDATA[EDF$K_ACTIVE_KEY]:3,
' Values  ');

IF BDATA[EDF$K_KEY_DUPS] THEN

    WRITE ('Yes ')

ELSE

    WRITE (' No ');

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_KEY_SURFACE) THEN

    WRITE ('KL-Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Length     ',IDATA[EDF$K_KEY_SIZE]:3,' ');

WRITE ('KP-Key',IDATA[EDF$K_ACTIVE_KEY]:3,
' Position  ',IDATA[EDF$K_KEY_POSITION]:5,' ');

WRITELN;
```

```
WRITE (LOW_SHIFT,' ');

IF IDATA[EDF$K_PROLOGUE_VERSION] > 2 THEN

BEGIN

    WRITE ('RC-Data Record Comp  ',
    TRUNC(RDATA[EDF$K_DATA_RECORD_COMP]*100.0):3,'% ');
    WRITE ('KC-Data Key Comp     ',
    TRUNC(RDATA[EDF$K_DATA_KEY_COMP]*100.0):3,'% ');
    WRITE ('IC-Index Record Comp ',
    TRUNC(RDATA[EDF$K_INDEX_RECORD_COMP]*100.0):3,'% ');

    WRITELN;
    WRITE (LOW_SHIFT,' ');

END;    { IF IDATA[EDF$K_PROLOGUE_VERSION] > 2 }

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_FILL_SURFACE) THEN

    WRITE ('BF-Bucket Fill       ',IDATA[EDF$K_DESIRED_FILL]:3,'% ');

WRITE ('RF-Record Format ');

IF VARIABLE_RECORDS THEN

    WRITE ('Variable ')

ELSE

    WRITE ('   Fixed ');

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_SIZE_SURFACE) THEN

BEGIN

    WRITE ('RS-');

    IF VARIABLE_RECORDS THEN

        WRITE ('Mean Record Size ')

    ELSE

        WRITE ('Record Size      ');

    WRITE (IDATA[EDF$K_MEAN_RECORD_SIZE]:5,' ');

END;


WRITELN;
WRITE (LOW_SHIFT,' ');

WRITE ('LM-Load Method ');
```

```
                CASE IDATA[EDF$K_LOAD_METHOD] OF

                    EDF$K_FAST_CONVERT :                    WRITE (' Fast_Conv ');
                    EDF$K_NOFAST_CONVERT :                  WRITE ('NoFast_Con ');
                    EDF$K_RMS_PUTS :                WRITE ('  RMS_Puts ');

                OTHERWISE

                    { NULL-STATEMENT } ;

                END;    { CASE }

                IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
                    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_INIT_SURFACE) THEN

                    WRITE ('IL-Initial Load ',IDATA[EDF$K_INITIAL_COUNT]:9,' ');

                IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
                    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_ADDED_SURFACE) THEN

                    WRITE ('AR-Added Records',IDATA[EDF$K_ADDED_COUNT]:9,' ');

                { +
                Done with display, now turn Graphics Mode off.
                - }
                IF REGIS THEN

                    WRITELN ('''';'(27)'\',CRLF,CRLF);

                WRITELN;

                { +
                Compensate for absent compression line.
                - }
                IF IDATA[EDF$K_PROLOGUE_VERSION] < 3 THEN

                    WRITELN;

            END;        { IF NOT AUTO_TUNE }

        END;    { EDF$K_DESIGN_CYCLE }

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

END;    { PRE_PROCESS }
```

```
{ ++

VERIFY_PROCESS -- Routine to check answer during questioning.

This function makes sure the user is giving good answers.

CALLING SEQUENCE:

status := VERIFY_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION VERIFY_PROCESS : BOOLEAN;

BEGIN

    { +
    Assume success.
    - }
    VERIFY_PROCESS      := TRUE;

    CASE QTAB_OFFSET OF

        EDF$K_KEY_NAME,
        EDF$K_FDL_TITLE,
        EDF$K_ANA[YSIS,
        EDF$K_OUTPUT,
        EDF$K_DATA_FILE_NAME :

        BEGIN

            IF SDATA[QTAB_OFFSET].DSC$W_LENGTH = 0 THEN

            BEGIN

                BDATA[QTAB_OFFSET]      := FALSE;

            END

            ELSE

            BEGIN

                IF (
                SDATA[QTAB_OFFSET].DSC$W_LENGTH > MAX_STRING_ANSWER_LENGTH
                ) THEN

                BEGIN

                    IF OPTIMIZING THEN

                    BEGIN

                        SDATA[QTAB_OFFSET].DSC$W_LENGTH :=
                                        MAX_STRING_ANSWER_LENGTH;
                        BDATA[QTAB_OFFSET]              := TRUE;

                    END

                    ELSE

                    BEGIN

                        STR$FREE1_DX (SDATA[QTAB_OFFSET]);
                        VERIFY_PROCESS  := FALSE;

                    END;

                END

            ELSE

                BDATA[QTAB_OFFSET]  := TRUE;

        END;        { IF FALSE SDATA[QTAB_OFFSET].DSC$W_LENGTH = 0 }

    END;

    EDF$K_FILL_LOW,
    EDF$K_FILL_HIGH,
    EDF$K_DESIRED_FILL :

        IF IDATA[QTAB_OFFSET] < 50 THEN

        BEGIN

            IDATA[QTAB_OFFSET]          := 50;

            IF NOT AUTO_TUNE THEN

            BEGIN

                WRITELN (SHIFT,'Initial Fill of 50% assumed');
                LIB$WAIT (3.0);

            END;

        END;

    EDF$K_DESIGN_CYCLE :

    BEGIN

        { +
        Make sure he hasn't typed a temporarily disabled option.
        - }
        IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

            IF (
            ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_FILL_SURFACE)
                AND (INPUT_VALUE = EDF$K_BF))
            OR
            ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_INIT_SURFACE)
                AND (INPUT_VALUE = EDF$K_IL))
            OR
            ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_ADDED_SURFACE)
                AND (INPUT_VALUE = EDF$K_AR))
            OR
            ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_SIZE_SURFACE)
                AND (INPUT_VALUE = EDF$K_RS))
            OR
            ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_KEY_SURFACE)
                AND (INPUT_VALUE = EDF$K_KL))
            OR
            (
            ( NOT (IDATA[EDF$K_KEY_TYPE] IN [ FDL$C_PAC, FDL$C_STG ]) )
            AND (INPUT_VALUE = EDF$K_KL)
        )
        ) THEN

            VERIFY_PROCESS      := FALSE;

    { +
    Make sure that he modifies only reasonable things.
    The following options make sense only for the primary key.
    - }
    IF (
    (IDATA[EDF$K_ACTIVE_KEY] <> 0) AND (INPUT_VALUE IN
    [ EDF$K_RF, EDF$K_RS, EDF$K_IL, EDF$K_AR, EDF$K_PV, EDF$K_LM ])
    ) THEN

        VERIFY_PROCESS          := FALSE;

    IF (
    (IDATA[EDF$K_PROLOGUE_VERSION] < 3) AND (INPUT_VALUE IN
    [ EDF$K_KC, EDF$K_RC, EDF$K_IC ])
    ) THEN

        VERIFY_PROCESS          := FALSE;

    IF (IDATA[EDF$K_INITIAL_COUNT] < 1) AND
    (INPUT_VALUE = EDF$K_LM) THEN

        VERIFY_PROCESS          := FALSE;

    IF (
    (IDATA[EDF$K_INITIAL_COUNT] < 1)
    AND
    (INPUT_VALUE = EDF$K_BF)
    AND
    (NOT AUTO_TUNE)
    ) THEN

    BEGIN

        WRITELN (SHIFT,ANSI_REVERSE,
        ' Fill Factor used is 100% when Initial Load is zero. ',
        ANSI_RESET);
        LIB$WAIT (3.0);

    END;

END;    { EDF$K_DESIGN_CYCLE }

EDF$K_SURFACE_OPTION :

BEGIN

    { +
    Disallow queer options.
    - }
    IF (
        (IDATA[EDF$K_ACTIVE_KEY] <> 0)
    AND
        (
        (INPUT_VALUE = EDF$K_SIZE_SURFACE)
        OR
        (INPUT_VALUE = EDF$K_INIT_SURFACE)
        OR
        (INPUT_VALUE = EDF$K_ADDED_SURFACE)
        )
    ) THEN

        VERIFY_PROCESS  := FALSE;

END;      { EDF$K_SURFACE_OPTION }

EDF$K_RECORD_FORMAT :

BEGIN

    IDATA[EDF$K_RECORD_FORMAT]  := INPUT_VALUE;

    { +
    Indexed files can have only fixed or variable record format.
    Relative files can't be stream or undefined.
    - }
    IF (
        (
        (ISAM_ORG)
        AND
        (NOT (IDATA[EDF$K_RECORD_FORMAT] IN [ FDL$C_VAR, FDL$C_FIX ]))
        )
    OR
        (
        (IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_REL_DESIGN_FDL)
        AND
        (IDATA[EDF$K_RECORD_FORMAT] IN [ FDL$C_STM, FDL$C_STMCR, FDL$C_STMLF, FDL$C_UDF ])
        )
    ) THEN

        VERIFY_PROCESS  := FALSE;

END;      { EDF$K_RECORD_FORMAT }

EDF$K_TEST_PRIMARY :

BEGIN

    TEST.OBJECT_TYPE            := PRI;
    TEST.PRIMARY                := INPUT_VALUE::PRIMARY_TYPE;
    TEST.PRINUM                 := INPUT_NUMBER;
    DEFAULT_PRINUM              := INPUT_NUMBER;
    ACTIVE_PRIMARY              := TEST.PRIMARY;
    DEFAULT_PRIMARY             := ACTIVE_PRIMARY;
    QTAB[QTAB_OFFSET].DEFAULT   := INPUT_VALUE;

    IF (
    (TEST.PRIMARY = AREA)
    OR
```

```
(TEST.PRIMARY = KEY)
) THEN

BEGIN

    IF TEST.PRINUM > 254 THEN

        VERIFY_PROCESS      := FALSE;

    SCAN_DEFINITION (TRUE);

    IF (
    (FOUND_AREA)
    AND
    (TEST.PRIMARY = AREA)
    AND
    ((TEST.PRINUM - HIGH_AREA) > 1)
    ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (FOUND_KEY)
    AND
    (TEST.PRIMARY = KEY)
    AND
    ((TEST.PRINUM - HIGH_KEY) > 1)
    ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (NOT FOUND_AREA)
    AND
    (TEST.PRIMARY = AREA)
    AND
    (TEST.PRINUM > 0)
    ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (NOT FOUND_KEY)
    AND
    (TEST.PRIMARY = KEY)
    AND
    (TEST.PRINUM > 0)
    ) THEN

        VERIFY_PROCESS      := FALSE;

END { IF TRUE (TEST.PRIMARY = AREA) OR (TEST.PRIMARY = KEY) }

ELSE

    TEST.PRINUM             := 0;
```

```
            { +
            If we're asking for only ones that exist, make sure this one does.
            - }
            IF NOT FULL_CHOICE THEN

            BEGIN

                DEF_CURRENT     := DEF_HEAD;

                REPEAT

                    IF NOT CURRENT_EQ_TEST(TEST,FALSE) THEN

                        INCR_CURRENT;

                UNTIL (CURRENT_EQ_TEST(TEST,FALSE) OR (DEF_CURRENT^.FORE = NIL));

                IF DEF_CURRENT <> NIL THEN

                BEGIN

                    IF NOT CURRENT_EQ_TEST(TEST,FALSE) THEN

                        VERIFY_PROCESS  := FALSE;

                END

                ELSE

                    VERIFY_PROCESS      := FALSE;

            END;

        END;    { EDF$K_TEST_PRIMARY }

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

END;    { VERIFY_PROCESS }
```

```
{ ++

POST_PROCESS -- Routine to finish up a question.

This function does any calculations needed once a question is anwerred.

CALLING SEQUENCE:

status := POST_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION POST_PROCESS : BOOLEAN;

VAR
    I    : INTEGER;

BEGIN

    { +
    Assume success.
    - }
    FOST_PROCESS          := TRUE;

    CASE QTAB_OFFSET OF

        { +
        These are boolean_answer questions.
        - }
        EDF$K_CONFIRM,
        EDF$K_KEY_DUPS,
        EDF$K_SEGMENTED,
        EDF$K_BLOCK_SPAN,
        EDF$K_GLOBAL_WANTED,
        EDF$K_ASCENDING_LOAD,
        EDF$K_ASCENDING_ADDED,
        EDF$K_KEY_COMP_WANTED,
        EDF$K_REC_COMP_WANTED,
        EDF$K_IDX_COMP_WANTED :

        BEGIN

            QUERY_FLAG          := (INPUT_VALUE = EDF$K_YES);
            BDATA[QTAB_OFFSET]  := QUERY_FLAG;

        END;    { BOOLEAN_ANSWER }

        { +
        Generalized answer storage for keyword answers.
        - }
        EDF$K_LOAD_METHOD,
        EDF$K_DESIGN_CYCLE,
        EDF$K_SET_FUNCTION,
        EDF$K_GRANULARITY,
        EDF$K_RESPONSES,
        EDF$K_KEY_TYPE,
        EDF$K_CARR_CTRL :

            IDATA[QTAB_OFFSET]          := INPUT_VALUE;

        { +
        Make the new default whatever the user answers.
        - }
        EDF$K_NUMBER_KEYS,
        EDF$K_SURFACE_OPTION,
        EDF$K_BUCKET_WEIGHT :

        BEGIN
    IDATA[QTAB_OFFSET]           := INPUT_VALUE;
    QTAB[QTAB_OFFSET].DEFAULT    := INPUT_VALUE;

END;

EDF$K_ANALYSIS :

BEGIN

    ANALYSIS_FILENAME_DESC       := NULL_STRING;
    LIB$SCOPY_DXDX (SDATA[EDF$K_ANALYSIS],ANALYSIS_FILENAME_DESC);
    ANALYSIS_SPECIFIED           := TRUE;

END;

EDF$K_SET_OUTPUT :

BEGIN

    OUTPUT_FILENAME_DESC         := NULL_STRING;
    LIB$SCOPY_DXDX (SDATA[EDF$K_OUTPUT],OUTPUT_FILENAME_DESC);

END;

EDF$K_PROMPTING :

BEGIN

    IDATA[QTAB_OFFSET]           := INPUT_VALUE;
    FULL_PROMPT                  := (INPUT_VALUE = EDF$K_FULL);

END;

EDF$K_SCRIPT_OPTION :

BEGIN

    IDATA[QTAB_OFFSET]           := INPUT_VALUE;

    ISAM_ORG    := (INPUT_VALUE IN [ EDF$K_IDX_DESIGN_FDL,
                    EDF$K_ADD_KEY_FDL, EDF$K_DELETE_KEY_FDL,
                    EDF$K_REDESIGN_FDL, EDF$K_OPTIMIZE_FDL ]);

END;    { SCRIPT_OPTION }

{ +
These are the real_answer questions.
- }
EDF$K_DATA_KEY_COMP,
EDF$K_DATA_RECORD_COMP,
EDF$K_INDEX_RECORD_COMP :

BEGIN

    { +
    Make sure we aren't fooled.
    - }
    IF ABS (IDATA[QTAB_OFFSET]) > 99 THEN

        IDATA[QTAB_OFFSET]      := 0;

    RDATA[QTAB_OFFSET]  := IDATA[QTAB_OFFSET];
    RDATA[QTAB_OFFSET]  := RDATA[QTAB_OFFSET] / 100.0;

END;    { EDF$K_DATA_KEY_COMP }

EDF$K_RETURN :

BEGIN

    IF NOT AUTO_TUNE THEN

    BEGIN

        { +
        Now that he's answered, clear his screen.
        - }
        IF REGIS THEN

            WRITELN (''(27)'Pp;S(E);'(27)'\');

        LIB$ERASE_PAGE (LINE_ONE,COL_ONE);

    END;        { IF NOT AUTO_TUNE }

END;    { EDF$K_RETURN }

EDF$K_GLOBAL_COUNT :

BEGIN

    { +
    GLOBAL_SET is true if GLOBAL_COUNT is set from the
    definition linked list.
    - }
    IF NOT GLOBAL_SET THEN

    BEGIN

        { +
        See how many global buffers would map the entire key 0
        index, plus the roots of all the alternate
        keys, plus 5 data buckets. (why 5? it sounds good...)
        If a level has more than 512 buckets, only 512 are counted.
        (let's not get ridiculous here)
        - }
        PRIMARY_INDEX_BUCKETS   := 0;

        FOR I := 1 TO 31 DO

        BEGIN

            IF INIT_PRIMARY_BUCKETS [I] > 512 THEN

```

```
                INIT_PRIMARY_BUCKETS [I]        := 512;

            IF ADDED_PRIMARY_BUCKETS [I] > 512 THEN

                ADDED_PRIMARY_BUCKETS [I]       := 512;

            PRIMARY_INDEX_BUCKETS           := PRIMARY_INDEX_BUCKETS
                                                + INIT_PRIMARY_BUCKETS [I]
                                                + ADDED_PRIMARY_BUCKETS [I];

        END;

        { +
        4 is added instead of 5 so we don't have to use
        (idata[edf$K_number_keys]-1) for the number of alternate keys.
        - }
        IDATA[EDF$K_GLOBAL_COUNT]       := PRIMARY_INDEX_BUCKETS +
                                        IDATA[EDF$K_NUMBER_KEYS] + 4;

    END;

    { +
    Up to an RMS maximum.
    - }
    IF IDATA[EDF$K_GLOBAL_COUNT] > EDF$C_MAX_GBL_BUFS THEN

        IDATA[EDF$K_GLOBAL_COUNT]       := EDF$C_MAX_GBL_BUFS;

END;    { EDF$K_GLOBAL_COUNT }

EDF$K_NUMBER_RECORDS :

    IDATA[EDF$K_INITIAL_COUNT]  := IDATA[QTAB_OFFSET];

EDF$K_KEY_POSITION :

    SEGMENT_POSITION[SEGMENT_NUMBER] := IDATA[QTAB_OFFSET];

EDF$K_KEY_SIZE :

BEGIN

    SEGMENT_WANTED[SEGMENT_NUMBER] := (IDATA[EDF$K_KEY_SIZE] > 0);
    SEGMENT_LENGTH[SEGMENT_NUMBER] := IDATA[QTAB_OFFSET];

END;

EDF$K_CONTROL_SIZE :

    CUR_MAX_REC         := CUR_MAX_REC - IDATA[QTAB_OFFSET];

EDF$K_NUMBER_DUPS :

    IF IDATA[QTAB_OFFSET] < 0 THEN

        IDATA[QTAB_OFFSET]      := 0;
```

```
EDF$K_PROLOGUE_VERSION :

BEGIN

    IF IDATA[EDF$K_PROLOGUE_VERSION] < 3 THEN

    BEGIN

        RDATA[EDF$K_DATA_RECORD_COMP]      := 0.0;
        RDATA[EDF$K_DATA_KEY_COMP]         := 0.0;
        RDATA[EDF$K_INDEX_RECORD_COMP]     := 0.0;

    END;

END;    { EDF$K_PROLOGUE_VERSION }

EDF$K_KEY_LOW,
EDF$K_ADDED_COUNT_LOW,
EDF$K_INITIAL_COUNT_LOW,
EDF$K_SIZE_LOW,
EDF$K_FILL_LOW :

BEGIN

    IDATA[EDF$K_Y_LOW]                  := IDATA[QTAB_OFFSET];
    QTAB[QTAB_OFFSET+1].LOW_BOUND       := IDATA[QTAB_OFFSET];

END;

EDF$K_KEY_HIGH,
EDF$K_FILL_HIGH,
EDF$K_SIZE_HIGH,
EDF$K_ADDED_COUNT_HIGH,
EDF$K_INITIAL_COUNT_HIGH :

BEGIN

    IDATA[EDF$K_Y_HIGH]         := IDATA[QTAB_OFFSET];

    CASE QTAB_OFFSET OF

        EDF$K_FILL_HIGH :       SPREAD_LOW_HIGH (50,100);

        EDF$K_SIZE_HIGH :       SPREAD_LOW_HIGH (1,CUR_MAX_REC);

        EDF$K_KEY_HIGH,
        EDF$K_ADDED_COUNT_HIGH,
        EDF$K_INITIAL_COUNT_HIGH :      SPREAD_LOW_HIGH (1,MAXINT-1);

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

END;
```

```
        EDF$K_DESIRED_FILL :

            IDATA[EDF$K_FDL_FILL]       := IDATA[EDF$K_DESIRED_FILL];

        EDF$K_CURRENT_FUNCTION :

        BEGIN

            IDATA[QTAB_OFFSET]          := INPUT_VALUE;

            { +
            Reset the script pointer (only auto-invoke on 1st entry).
            - }
            IDATA[EDF$K_SCRIPT_OPTION]  := EDF$K_ZERO_SCRIPT;

            { +
            Reset the ^Z flag.
            - }
            MAIN_LEVEL                  := FALSE;

        END;    { EDF$K_CURRENT_FUNCTION }

        EDF$K_RECORD_FORMAT :

        BEGIN

            { +
            The IDATA[EDF$K_RECORD_FORMAT] variable was set in VERIFY_PROCESS.
            - }

            { +
            Set a convenience boolean.
            - }
            VARIABLE_RECORDS    := (
                                    (IDATA[EDF$K_RECORD_FORMAT] <> FDL$C_FIX)
                                    AND
                                    (IDATA[EDF$K_RECORD_FORMAT] <> FDL$C_UDF)
                                    );

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_TEST_PRIMARY :

        BEGIN

            IF ACTIVE_PRIMARY = AREA THEN

                ACTIVE_AREA             := INPUT_NUMBER

            ELSE IF ACTIVE_PRIMARY = KEY THEN

                IDATA[EDF$K_ACTIVE_KEY] := INPUT_NUMBER;

        END;    { EDF$K_TEST_PRIMARY }

    OTHERWISE

```

```
                { NULL-STATEMENT } ;

            END;        { CASE }

        END;    { POST_PROCESS }
```

```
{ ++

QUERY -- Routine to control the asking of questions.

This function processes the QTAB table, and interacts with the user.

CALLING SEQUENCE:

status := QUERY (QTAB-OFFSET-VALUE);

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$OUTPUT:

ROUTINES CALLED:

WRITE_QUESTION
WRITE_HELP
PRE_PROCESS
VERIFY_PROCESS
POST_PROCESS

ROUTINE VALUE:

TRUE if answer was yes, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
[GLOBAL] FUNCTION QUERY (OFFSET : INTEGER) : BOOLEAN;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Special for top level query.
        - }
        IF QTAB_OFFSET = EDF$K_CURRENT_FUNCTION THEN

        BEGIN

            MAIN_LEVEL          := TRUE;
            MAIN_CTRLZ          := FALSE;
            CONTROL_ZEE_TYPED   := FALSE;

        END;    { IF TRUE QTAB_OFFSET = EDF$K_CURRENT_FUNCTION }

        { +
        Setup to catch bad user input.
        - }
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        IF NOT AUTO_TUNE THEN

        BEGIN

            IF TEMP_FULL_PROMPT THEN

                WRITE_HELP;

            WRITE_QUESTION;

        END;

        CASE QTAB[QTAB_OFFSET].ANSWER_CLASS OF

            STRING_ANSWER :

            BEGIN

                SDATA[QTAB_OFFSET]      := NULL_STRING;

                IF (
                (
                (TAKE_DEFAULTS)
                AND
                (IDATA[EDF$K_RESPONSES] = EDF$K_AUTO)
                )
                OR
                (AUTO_TUNE)
                ) THEN

                BEGIN

        IF NOT AUTO_TUNE THEN

            LIB$WAIT (0.7);

    END

    ELSE

    BEGIN

        IF EOF (INPUT) THEN

        BEGIN

            RESET (INPUT);
            LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

        END;

        READLN (TEMP_STRING255);
        STR$TRIM (SDATA[QTAB_OFFSET],TEMP_STRING255);
        LIB$SCOPY_DXDX (SDATA[QTAB_OFFSET],INPUT_DESC);
        PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
        PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

    END;

    IF NOT AUTO_TUNE THEN

        WRITELN (CRLF);

    { +
    If we're journaling our input, save a copy of it to the
    journal file.
    - }
    IF JOURNAL_ENABLED THEN

        IF SDATA[QTAB_OFFSET].DSC$W_LENGTH > 0 THEN

            WRITELN (
                JOURNAL_FILE,
                SDATA[QTAB_OFFSET].DSC$A_POINTER^:
                    SDATA[QTAB_OFFSET].DSC$W_LENGTH
                )

        ELSE

            WRITELN (JOURNAL_FILE);

END;        { STRING_ANSWER }

REAL_ANSWER,        { Actually, real_answer = integer percentage }
INTEGER_ANSWER :

BEGIN

    NUMBER_INPUT (
            IDATA[QTAB_OFFSET],
            QTAB[QTAB_OFFSET].DEFAULT_OK,
            QTAB[QTAB_OFFSET].DEFAULT);

    { +
    Max record size of 0 is one case where it's OK to
    specify an answer that's out of the low-high range.
    - }
    IF (
    (
        (QTAB_OFFSET = EDF$K_MAX_RECORD_SIZE)
        AND
        (IDATA[EDF$K_SCRIPT_OPTION] <> EDF$K_REL_DESIGN_FDL)
        AND
        (IDATA[QTAB_OFFSET] = 0)
    )
    OR
    (
        (BDATA[EDF$K_SEGMENTED])
        AND
        (SEGMENT_NUMBER <> 0)
        AND
        (QTAB_OFFSET = EDF$K_KEY_SIZE)
        AND
        (IDATA[QTAB_OFFSET] = 0)
    )
    ) THEN

    BEGIN

        { NULL-STATEMENT } ;

    END

    ELSE

    BEGIN

        IF (
        (IDATA[QTAB_OFFSET] < QTAB[QTAB_OFFSET].LOW_BOUND)
        OR
        (IDATA[QTAB_OFFSET] > QTAB[QTAB_OFFSET].HIGH_BOUND)
        ) THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    END;

END;        { REAL_ANSWER,INTEGER_ANSWER }

BOOLEAN_ANSWER,
KEYWORD_ANSWER :

BEGIN

    PARSE_INPUT (
            QTAB[QTAB_OFFSET].KEY_TABLE,
                QTAB[QTAB_OFFSET].STATE_TABLE,
                QTAB[QTAB_OFFSET].DEFAULT_OK,
                QTAB[QTAB_OFFSET].DEFAULT);

    END;        { BOOLEAN_ANSWER, KEYWORD_ANSWER }

    NO_ANSWER :

    BEGIN

        { +
        When the user just types <CR>, then accept anything.
        - }
        IF AUTO_TUNE THEN

        BEGIN

            { NULL-STATEMENT } ;

        END

        ELSE

        BEGIN

            IF EOF (INPUT) THEN

            BEGIN

                RESET (INPUT);
                LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

            END;

            READLN;

            IF JOURNAL_ENABLED THEN

                WRITELN (JOURNAL_FILE);

        END;

    END;        { NO_ANSWER }

    OBJECT_ANSWER :

        { T.B.S. } ;

OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

{ +
Do some initial checking of the answer.
- }
```

```
            IF NOT VERIFY_PROCESS THEN

                LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

            { +
            Make sure this is true for only one cycle.
            - }
            TEMP_FULL_PROMPT        := FALSE;

        END;        { THE_QUESTION }
```

```
BEGIN

    { +
    Make which question we're on widely known.
    - }
    QTAB_OFFSET         := OFFSET;

    IF PRE_PROCESS THEN

    BEGIN

        { +
        Keep at it until the user gets it right.
        - }
        REPEAT

            THE_QUESTION;

        UNTIL NOT SYS$INPUT_ERROR;

        STR$FREE1_DX (INPUT_DESC);

    END;        { IF TRUE PRE_PROCESS }

    { +
    If this question has a valid answer, flag it so.
    - }
    IF POST_PROCESS THEN

        VDATA[QTAB_OFFSET]      := TRUE;

    { +
    Set the output function value.
    - }
    QUERY       := QUERY_FLAG;

END;    { QUERY }
```

```
        { ++

        ASK_KEY_DUPS -- Query the user.

        This routine asks the user if he wants duplicates on his key.
        If he does, then it asks him how many.

        CALLING SEQUENCE:

        ASK_KEY_DUPS;

        INPUT PARAMETERS:

        none

        IMPLICIT INPUTS:

        SYS$INPUT_ERROR
        SYS$INPUT:

        OUTPUT PARAMETERS:

        none

        IMPLICIT OUTPUTS:

        BDATA[EDF$K_NUMBER_DUPS]
        BDATA[EDF$K_KEY_DUPS]

        ROUTINES CALLED:

        none

        ROUTINE VALUE:

        none

        SIGNALS:

        none

        SIDE EFFECTS:

        none

        -- }
```

```
PROCEDURE ASK_KEY_DUPS;

BEGIN

    IF QUERY (EDF$K_KEY_DUPS) THEN

        QUERY (EDF$K_NUMBER_DUPS)

    ELSE

        IDATA[EDF$K_NUMBER_DUPS]        := 0;

END;    { ASK_KEY_DUPS }
```

```
{ ++

ASK_GLOBAL_WANTED -- Query the user.

This routine asks the user if he wants Global Buffers, and if he does, then
it asks him how many.

CALLING SEQUENCE:

ASK_GLOBAL_WANTED;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_GLOBAL_COUNT]
BDATA[EDF$K_GLOBAL_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_GLOBAL_WANTED)
QUERY (EDF$K_GLOBAL_COUNT)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_GLOBAL_WANTED;

BEGIN

    { +
    If we want Global Buffers, see how many.
    - }
    IF QUERY (EDF$K_GLOBAL_WANTED) THEN

        QUERY (EDF$K_GLOBAL_COUNT)

    ELSE

        IDATA[EDF$K_GLOBAL_COUNT]       := 0;

END;    { ASK_GLOBAL_WANTED }
```

```
{ ++

ASK_KEY_COMP -- Query the user.

This routine asks the user if he wants key compression and if he does, then
it finds out what the compression was.

CALLING SEQUENCE:

ASK_KEY_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_DATA_KEY_COMP]
BDATA[EDF$K_KEY_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_KEY_COMP_WANTED)
QUERY (EDF$K_DATA_KEY_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_COMP;

BEGIN

    { +
    If we want compression. See what it is.
    - }
    IF QUERY (EDF$K_KEY_COMP_WANTED) THEN

        QUERY (EDF$K_DATA_KEY_COMP)

    ELSE

        RDATA[EDF$K_DATA_KEY_COMP]      := 0.0;

END;    { ASK_KEY_COMP }
```

```
{ ++

ASK_REC_COMP -- Query the user.

This routine asks the user if he wants record compression, and if he does, then
it finds out how much there is.

CALLING SEQUENCE:

ASK_REC_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_DATA_RECORD_COMP]
BDATA[EDF$K_REC_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_REC_COMP_WANTED)
QUERY (EDF$K_DATA_RECORD_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_REC_COMP;

BEGIN

    { +
    If we want compression. See what it is.
    - }
    IF QUERY (EDF$K_REC_COMP_WANTED) THEN

        QUERY (EDF$K_DATA_RECORD_COMP)

    ELSE

        RDATA[EDF$K_DATA_RECORD_COMP]   := 0.0;

END;    { ASK_REC_COMP }
```

```
{ ++

ASK_IDX_COMP -- Query the user.

This routine asks the user if he wants index compression and if he does, then
it finds out how much there is.

CALLING SEQUENCE:

ASK_IDX_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_INDEX_RECORD_COMP]
BDATA[EDF$K_IDX_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_IDX_COMP_WANTED)
QUERY (EDF$K_INDEX_RECORD_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_IDX_COMP;

BEGIN

    { +
    If we want compression. See what it is.
    - }
    IF QUERY (EDF$K_IDX_COMP_WANTED) THEN

        QUERY (EDF$K_INDEX_RECORD_COMP)

    ELSE

        RDATA[EDF$K_INDEX_RECORD_COMP]  := 0.0;

END;    { ASK_IDX_COMP }
```

```
{ ++

ASK_MEAN_RECORD_SIZE -- Query the user.

This routine asks about the user's record size. (plus max_rec, and control_size)

CALLING SEQUENCE:

ASK_MEAN_RECORD_SIZE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_MEAN_RECORD_SIZE]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_MEAN_RECORD_SIZE;

BEGIN

    { +
    This question shouldn't be asked for alternate keys. Unless redesigning,
    and we don't already have a value for it.
    - }
    IF (
    (NOT ISAM_ORG)
    OR
    (ISAM_ORG AND (IDATA[EDF$K_ACTIVE_KEY] = 0))
    OR
    (NOT VDATA[EDF$K_MEAN_RECORD_SIZE])
    ) THEN

    BEGIN

        { +
        Ask the question we're here for.
        - }
        QUERY (EDF$K_MEAN_RECORD_SIZE);

        { +
        Get (or set) the other record size parameter.

        THE CONTROL_SIZE QUESTION MUST COME BEFORE THE MAX_RECORD_SIZE
        QUESTION!

        - }
        IF IDATA[EDF$K_RECORD_FORMAT] = FDL$C_VFC THEN

            QUERY (EDF$K_CONTROL_SIZE);

        IF VARIABLE_RECORDS THEN

            QUERY (EDF$K_MAX_RECORD_SIZE)

        ELSE

            IDATA[EDF$K_MAX_RECORD_SIZE] := IDATA[EDF$K_MEAN_RECORD_SIZE];

    END;

END;    { ASK_MEAN_RECORD_SIZE }
```

```
{ ++

ASK_KEY_SIZE -- Query the user.

This routine asks about the user's key size.

CALLING SEQUENCE:

ASK_KEY_SIZE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_KEY_SIZE]
SEGMENT_LENGTH[0..7]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_SIZE;

VAR
    I   : INTEGER;

BEGIN

    IF BDATA[EDF$K_SEGMENTED] THEN

    BEGIN

        SEGMENT_NUMBER  := 0;

        REPEAT

            QUERY (EDF$K_KEY_SIZE);

            SEGMENT_NUMBER      := SEGMENT_NUMBER + 1;

        UNTIL (IDATA[EDF$K_KEY_SIZE] = 0) OR (SEGMENT_NUMBER > 7);

        IF IDATA[EDF$K_KEY_SIZE] = 0 THEN

        BEGIN

            FOR I := SEGMENT_NUMBER TO 7 DO

                SEGMENT_WANTED[I]       := FALSE;

        END;

        IDATA[EDF$K_KEY_SIZE]   := SEGMENT_LENGTH[0];

    END

    ELSE

        QUERY (EDF$K_KEY_SIZE);

END;    { ASK_KEY_SIZE }
```

```
{ ++

ASK_KEY_POSITION -- Query the user.

This routine asks about the user's key position.

CALLING SEQUENCE:

ASK_KEY_POSITION;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_KEY_POSITION]
SEGMENT_POSITION[0..7]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_POSITION;

BEGIN

    IF BDATA[EDF$K_SEGMENTED] THEN

    BEGIN

        FOR SEGMENT_NUMBER := 0 TO 7 DO

        BEGIN

            IF SEGMENT_WANTED[SEGMENT_NUMBER] THEN

                QUERY (EDF$K_KEY_POSITION);

        END;

        IDATA[EDF$K_KEY_POSITION]     := SEGMENT_POSITION[0];

    END

    ELSE

        QUERY (EDF$K_KEY_POSITION);

END;    { ASK_KEY_POSITION }
```

```
{ ++

ASK_TEST_SECONDARY -- Get the user's choice of secondary.

This routine queries the user.

CALLING SEQUENCE:

ASK_TEST_SECONDARY

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

CRLF
TAB
SYS$INPUT_ERROR
SYS$INPUT:

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$OUTPUT:

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_TEST_SECONDARY;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Set up to catch bad user input.
        - }
        EDF$GL_SECNUM   := 0;
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        CASE ACTIVE_PRIMARY OF

            IDENT :

                INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }

            TITLE :

                INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }
```

```
ACCESS :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal ACCESS',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BLOCK_IO               yes/no',
                    CRLF_SHIFT,
                    'DELETE                 yes/no',
                    CRLF_SHIFT,
                    'GET                    yes/no',
                    CRLF_SHIFT,
                    'PUT                    yes/no',
                    CRLF_SHIFT,
                    'RECORD_IO              yes/no',
                    CRLF_SHIFT,
                    'TRUNCATE               yes/no',
                    CRLF_SHIFT,
                    'UPDATE                 yes/no',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current ACCESS',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter ACCESS Attribute            (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_ACCESS_TABLE_KEY),
                IADDRESS (EDF$AB_ACCESS_TABLE_STA),
                FALSE,
                0
                );

END;        { ACCESS }
```

```
(* Here starts the comment to exclude ACLS *)
(*          ACL :

            BEGIN

                IF FULL_CHOICE THEN

                    BEGIN

                        CLEAR (IF_FULL_PROMPT);

                        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                        BEGIN

                            WRITELN (SHIFT,'                 ',ANSI_REVERSE,
                            ' Legal ACL',SEC_ATTR,
                            ANSI_RESET,CRLF,
                            CRLF,SHIFT,
                            'ENTRY                  string',
                            CRLF);
*)
(*                      END*){ IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }
(*
                        ELSE

                            WRITELN (SHIFT,QUES_HINT);

                    END

                ELSE

                    BEGIN

                        CLEAR (IF_FULL_PROMPT);

                        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                        BEGIN

                            WRITELN (SHIFT,'                 ',ANSI_REVERSE,
                            ' Current ACL',SEC_ATTR,
                            ANSI_RESET,CRLF);
*)
                            { +
                            Setup to display definition on the terminal.
                            - }
(*                          OPEN   (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                                    RECORD_LENGTH := 252);
                            REWRITE (FDL_DEST);

                            SHOW_PRIMARY_SECTION (TEST);

                            CLOSE (FDL_DEST);
*)
(*                      END*){ IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }
(*
                                        ELSE

                                            WRITELN (SHIFT,QUES_HINT);

                                    END;*)  { EXTANT_ONLY }

            { +
                THIS CAN BE OPTIMIZED IN THE FUTURE - GIVEN THAT THE ACL PRIMARY HAS ONLY
                ONE KIND OF SECONDARY:   ''ENTRY''
            - }
            (*
                            WRITE (SHIFT,'Enter ACL Attribute               (Keyword)',
                            ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
                            PARSE_INPUT (
                                        IADDRESS (EDF$AB_ACL_TABLE_KEY),
                                        IADDRESS (EDF$AB_ACL_TABLE_STA),
                                        FALSE,
                                        0
                                        );

                        END;*)      { ACL }

```

```
ANALYSIS_OF_AREA :

    INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }

ANALYSIS_OF_KEY :

    INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }
```

```
AREA :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal AREA ',ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
                    SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'ALLOCATION             number',
                    CRLF_SHIFT,
                    'BEST_TRY_CONTIGUOUS    yes/no',
                    CRLF_SHIFT,
                    'BUCKET_SIZE            number',
                    CRLF_SHIFT,
                    'CONTIGUOUS             yes/no',
                    CRLF_SHIFT,
                    'EXACT_POSITIONING      yes/no',
                    CRLF_SHIFT,
                    'EXTENSION              number',
                    CRLF_SHIFT,
                    'POSITION    qualifier  number',
                    CRLF_SHIFT,
                    'VOLUME                 number',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current AREA ',
                    ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
                    SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter AREA ',ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
    ' Attribute             (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_AREA_TABLE_KEY),
                IADDRESS (EDF$AB_AREA_TABLE_STA),
                FALSE,
                0
                );

END;        { AREA }
```

```
            CONNECT :

            BEGIN

                    IF FULL_CHOICE THEN

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

WRITELN (SHIFT,'                 ',ANSI_REVERSE,
' Legal CONNECT',SEC_ATTR,
ANSI_RESET,CRLF,
CRLF_SHIFT,
'ASYNCHRONOUS           yes/no  NOLOCK                   yes/no',
CRLF_SHIFT,
'BLOCK_IO               yes/no  NONEXISTENT_RECORD       yes/no',
CRLF_SHIFT,
'BUCKET_CODE            number  READ_AHEAD               yes/no',
CRLF_SHIFT,
'CONTEXT                        number  READ_REGARDLESS          yes/no',
CRLF_SHIFT,
'END_OF_FILE            yes/no  TIMEOUT_ENABLE           yes/no',
CRLF_SHIFT,
'FAST_DELETE            yes/no  TIMEOUT_PERIOD           number',
CRLF_SHIFT,
'FILL_BUCKETS           yes/no  TRUNCATE_ON_PUT          yes/no',
CRLF_SHIFT,
'KEY_GREATER_EQUAL      yes/no  TT_CANCEL_CONTROL_O      yes/no',
CRLF_SHIFT,
'KEY_GREATER_THAN       yes/no  TT_PROMPT                yes/no',
CRLF_SHIFT,
'KEY_LIMIT              yes/no  TT_PURGE_TYPE_AHEAD      yes/no',
CRLF_SHIFT,
'KEY_OF_REFERENCE       number  TT_READ_NOECHO           yes/no',
CRLF_SHIFT,
'LOCATE_MODE            yes/no  TT_READ_NOFILTER         yes/no',
CRLF_SHIFT,
'LOCK_ON_READ           yes/no  TT_UPCASE_INPUT          yes/no',
CRLF_SHIFT,
'LOCK_ON_WRITE          yes/no  UPDATE_IF                yes/no',
CRLF_SHIFT,
'MANUAL_UNLOCKING       yes/no  WAIT_FOR_RECORD          yes/no',
CRLF_SHIFT,
'MULTIBLOCK_COUNT       number  WRITE_BEHIND             yes/no',
CRLF_SHIFT,
'MULTIBUFFER_COUNT      number',
CRLF
);

                            END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                            ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current CONNECT',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter CONNECT Attribute          (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_CONNECT_TABLE_KEY),
                IADDRESS (EDF$AB_CONNECT_TABLE_STA),
                FALSE,
                0
                );

END;        { CONNECT }
```

```
DATE :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal DATE',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BACKUP                 string',
                    CRLF_SHIFT,
                    'CREATION               string',
                    CRLF_SHIFT,
                    'EXPIRATION             string',
                    CRLF_SHIFT,
                    'REVISION               string',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current DATE',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter DATE Attribute              (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_DATE_TABLE_KEY),
                IADDRESS (EDF$AB_DATE_TABLE_STA),
                FALSE,
                0
                );

END;        { DATE }
```

```
            FILES$ :

            BEGIN

                    IF FULL_CHOICE THEN

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

WRITELN (SHIFT,'                ',ANSI_REVERSE,
' Legal FILE',SEC_ATTR,
ANSI_RESET,CRLF,CRLF_SHIFT,
'ALLOCATION             number  MT_PROTECTION           char/num',
CRLF_SHIFT,
'BEST_TRY_CONTIGUOUS    yes/no  NAME                    string',
CRLF_SHIFT,
'BUCKET_SIZE            number  NOBACKUP                yes/no',
CRLF_SHIFT,
'CLUSTER_SIZE           number  NON_FILE_STRUCTURED     yes/no',
CRLF_SHIFT,
'CONTEXT                        number  ORGANIZATION            keyword',
CRLF_SHIFT,
'CONTIGUOUS             yes/no  OUTPUT_FILE_PARSE       yes/no',
CRLF_SHIFT,
'CREATE_IF              yes/no  OWNER                   uic',
CRLF_SHIFT,
'DEFAULT_NAME           string  PRINT_ON_CLOSE          yes/no',
CRLF_SHIFT,
'DEFERRED_WRITE         yes/no  PROTECTION              yes/no',
CRLF_SHIFT,
'DELETE_ON_CLOSE                yes/no  READ_CHECK              yes/no',
CRLF_SHIFT,
'DIRECTORY_ENTRY                yes/no  REVISION                number',
CRLF_SHIFT,
'EXTENSION              number  SEQUENTIAL_ONLY         yes/no',
CRLF_SHIFT,
'GLOBAL_BUFFER_COUNT    number  SUBMIT_ON_CLOSE         yes/no',
CRLF_SHIFT,
'MAX_RECORD_NUMBER      number  SUPERSEDE               yes/no',
CRLF_SHIFT,
'MAXIMIZE_VERSION       yes/no  TEMPORARY               yes/no',
CRLF_SHIFT,
'MT_BLOCK_SIZE          number  TRUNCATE_ON_CLOSE       yes/no',
CRLF_SHIFT,
'MT_CLOSE_REWIND                yes/no  USER_FILE_OPEN          yes/no',
CRLF_SHIFT,
'MT_CURRENT_POSITION    yes/no  WINDOW_SIZE             number',
CRLF_SHIFT,
'MT_NOT_EOF             yes/no  WRITE_CHECK             yes/no',
CRLF
);
```

```
                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                           ',ANSI_REVERSE,
                    ' Current FILE',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter FILE Attribute              (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_FILE_TABLE_KEY),
                IADDRESS (EDF$AB_FILE_TABLE_STA),
                FALSE,
                0
                );

END;        { FILE }
```

```
JOURNAL :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal JOURNAL',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'AFTER_IMAGE            yes/no',
                    CRLF_SHIFT,
                    'AFTER_NAME             string',
                    CRLF_SHIFT,
                    'AUDIT_TRAIL            yes/no',
                    CRLF_SHIFT,
                    'AUDIT_NAME             string',
                    CRLF_SHIFT,
                    'BEFORE_IMAGE           yes/no',
                    CRLF_SHIFT,
                    'BEFORE_NAME            string',
                    CRLF_SHIFT,
                    'RECOVERY_UNIT          keyword',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                BEGIN

                    WRITELN (SHIFT,QUES_HINT);

                END;

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current JOURNAL',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter JOURNAL Attribute           (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_JOURNAL_TABLE_KEY),
                IADDRESS (EDF$AB_JOURNAL_TABLE_STA),
                FALSE,
                0
                );

END;        { JOURNAL }
```

```
            KEY :

            BEGIN

                    IF FULL_CHOICE THEN

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

WRITELN (SHIFT,'                '.ANSI_REVERSE,
' Legal KEY',
IDATA[EDF$K_ACTIVE_KEY]:3,
SEC_ATTR,
ANSI_RESET,CRLF,
CRLF_SHIFT,
'CHANGES                        yes/no  LEVEL1_INDEX_AREA       number',
CRLF_SHIFT,
'DATA_AREA              number  NAME                    string',
CRLF_SHIFT,
'DATA_FILL              number  NULL_KEY                yes/no',
CRLF_SHIFT,
'DATA_KEY_COMPRESSION   yes/no  NULL_VALUE              char/num',
CRLF_SHIFT,
'DATA_RECORD_COMPRESSION        yes/no  POSITION                number',
CRLF_SHIFT,
'DUPLICATES             yes/no  PROLOG                  number',
CRLF_SHIFT,
'INDEX_AREA             number  TYPE                    keyword',
CRLF_SHIFT,
'INDEX_COMPRESSION      yes/no  SEGn_LENGTH             number',
CRLF_SHIFT,
'INDEX_FILL             number  SEGn_POSITION           number',
CRLF_SHIFT,
'LENGTH                 number'{        SEGn_TYPE       keyword},
CRLF);

                            END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                            ELSE

                                WRITELN (SHIFT,QUES_HINT);

                        END

                    ELSE

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN
```

```
                BEGIN

                    WRITELN (SHIFT,'                    ',ANSI_REVERSE,
                    ' Current KEY'
                    IDATA[EDF$K_ACTIVE_KEY]:3,
                    SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END:    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter KEY',
    IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Attribute              (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_KEY_TABLE_KEY),
                IADDRESS (EDF$AB_KEY_TABLE_STA),
                FALSE,
                0
                );

END;        { KEY }
```

```
RECORDS$ :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal RECORD',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BLOCK_SPAN             yes/no',
                    CRLF_SHIFT,
                    'CARRIAGE_CONTROL       keyword',
                    CRLF_SHIFT,
                    'CONTROL_FIELD_SIZE     number',
                    CRLF_SHIFT,
                    'FORMAT                 keyword',
                    CRLF_SHIFT,
                    'SIZE                   number',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                BEGIN

                    WRITELN (SHIFT,QUES_HINT);

                END;

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current RECORD',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter RECORD Attribute           (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_RECORD_TABLE_KEY),
                IADDRESS (EDF$AB_RECORD_TABLE_STA),
                FALSE,
                0
                );

END;        { RECORD }
```

```
SHARING :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                 ',ANSI_REVERSE,
                    ' Legal SHARING',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'DELETE                  yes/no',
                    CRLF_SHIFT,
                    'GET                     yes/no',
                    CRLF_SHIFT,
                    'MULTISTREAM             yes/no',
                    CRLF_SHIFT,
                    'PROHIBIT                yes/no',
                    CRLF_SHIFT,
                    'PUT                     yes/no',
                    CRLF_SHIFT,
                    'UPDATE                  yes/no',
                    CRLF_SHIFT,
                    'USER_INTERLOCK          yes/no',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                 ',ANSI_REVERSE,
                    ' Current SHARING',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;      { EXTANT_ONLY }

    WRITE (SHIFT,'Enter SHARING Attribute           (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_SHARING_TABLE_KEY),
                IADDRESS (EDF$AB_SHARING_TABLE_STA),
                FALSE,
                0
                );

END;        { SHARING }
```

```
SYSTEM :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal SYSTEM',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'DEVICE                 string',
                    CRLF_SHIFT,
                    'SOURCE                 keyword',
                    CRLF_SHIFT,
                    'TARGET                 keyword',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current SYSTEM',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter SYSTEM Attribute            (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_SYSTEM_TABLE_KEY),
                IADDRESS (EDF$AB_SYSTEM_TABLE_STA),
                FALSE,
                0
                );

END;        { SYSTEM }
```

```
OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

IF TEST.PRIMARY <> TITLE THEN

    TEST.OBJECT_TYPE    := SEC;

TEST.SECONDARY  := INPUT_VALUE::SECONDARY_TYPE;

{ +
Get the secondary number if there was one, it's inited to 0;
only SEGn_LENGTH,_POSITION,_TYPE set it.
Force seg_type to be last.
- }
IF TEST.SECONDARY = SEG_TYPE THEN

    TEST.SECNUM := 7

ELSE

    TEST.SECNUM := EDF$GL_SECNUM;

IF (
(TEST.SECNUM < 0)
OR
(TEST.SECNUM > 7)
) THEN

    LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

{ +
If we're only to ask for what exists, then make sure this does.
- }
IF NOT FULL_CHOICE THEN

BEGIN

    DEF_CURRENT         := DEF_HEAD;

    REPEAT

        IF NOT CURRENT_EQ_TEST(TEST,TRUE) THEN

            INCR_CURRENT;

    UNTIL (CURRENT_EQ_TEST(TEST,TRUE) OR (DEF_CURRENT^.FORE = NIL));

    IF DEF_CURRENT <> NIL THEN

    BEGIN

        IF NOT CURRENT_EQ_TEST(TEST,TRUE) THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);
```

```

                    END

                    ELSE

                            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

                END;    { IF DISPLAY = EXTANT_ONLY }

                { +
                Make sure this is true for only one cycle.
                - }
                TEMP_FULL_PROMPT        := FALSE;

            END;        { THE_QUESTION }

        BEGIN

            { +
            Keep at it until the user gets it right.
            - }
            REPEAT

                THE_QUESTION;

            UNTIL NOT SYS$INPUT_ERROR;

            STR$FREE1_DX (INPUT_DESC);

        END;    { ASK_TEST_SECONDARY }
```

```
{ ++

ASK_TEST_SECONDARY_VALUE -- Input the user's value for the secondary.

This routine queries the user about his secondary.

CALLING SEQUENCE:

ASK_TEST_SECONDARY_VALUE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT:

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$INPUT_ERROR
SYS$OUTPUT:

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_TEST_SECONDARY_VALUE;

VAR
    I                       : INTEGER;
    TEMP_INT                : INTEGER;
    TEMP_DESC               : DESCRIPTOR;
    TEMP_MAX                : INTEGER;
    TEMP_STRING255          : STRING255;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Set up the condition handler to catch typing errors.
        - }
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        IF TEMP_FULL_PROMPT THEN

            WRITELN (SHIFT,
            'The value entered will be put into the Definition.');

        { +
        Pop the question.
        - }
        IF TEST.PRIMARY = DATE THEN

            WRITE (CRLF_SHIFT,
            '(dd-mmm-yyyy hh:mm:ss.cc)');

        IF TEST.SECONDARY = POSITION$ THEN

            WRITE (CRLF_SHIFT,
            '(Any_cylinder Cylinder File_ID File_name',
            CRLF_SHIFT,' Logical None Virtual)',CRLF_SHIFT,
            'Enter POSITION qualifier   (')

        ELSE IF NOT SEC_TYPE[TEST.SECONDARY].QUAL THEN

            WRITE (CRLF_SHIFT,'Enter value for this Secondary   (');

        IF SEC_TYPE[TEST.SECONDARY].QUAL THEN

        BEGIN

            CASE TEST.SECONDARY OF

                ORGANIZATION :

                    WRITE (CRLF_SHIFT,
                    '(Indexed Relative Sequential)');

                SOURCE,
                TARGET :
```

```
        WRITE (CRLF_SHIFT,
        '(IAS RSTS/E RSX-11M RSX-11M-PLUS RT-11 VAX/VMS)');

    RECOVERY_UNIT :

        WRITE (CRLF_SHIFT,
  '(If_in_recovery_unit Necessary_to_write Never_RU_journal None)');

    CARRIAGE_CONTROL :

        WRITE (CRLF_SHIFT,
        '(Carriage_return FORTRAN None Print)');

    FORMAT :

        WRITE (CRLF_SHIFT,
        '(Fixed Stream Stream_CR Stream_LF',CRLF_SHIFT,
        ' Undefined Variable VFC)');

    SEG_TYPE :

        WRITE (CRLF_SHIFT,
        '(Bin2 Bin4 Bin8 Decimal Int2 Int4 Int8 String)');

OTHERWISE

    { NULL-STATEMENT } ;

END;        { CASE }

WRITE (CRLF_SHIFT,'Enter value for this Secondary   (Keyword)',
ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');

CASE TEST.SECONDARY OF

    ORGANIZATION :

    PARSE_INPUT (
                IADDRESS (EDF$AB_ORG_TABLE_KEY),
                IADDRESS (EDF$AB_ORG_TABLE_STA),
                FALSE,
                0
                );

    SOURCE,
    TARGET :

    PARSE_INPUT (
                IADDRESS (EDF$AB_SOURCE_TABLE_KEY),
                IADDRESS (EDF$AB_SOURCE_TABLE_STA),
                FALSE,
                0
                );

    RECOVERY_UNIT :

    PARSE_INPUT (
                                IADDRESS (EDF$AB_RU_TABLE_KEY),
                                IADDRESS (EDF$AB_RU_TABLE_STA),
                                FALSE,
                                0
                                );

                CARRIAGE_CONTROL :

                PARSE_INPUT (
                                IADDRESS (EDF$AB_CARR_TABLE_KEY),
                                IADDRESS (EDF$AB_CARR_TABLE_STA),
                                FALSE,
                                0
                                );

                FORMAT :

                PARSE_INPUT (
                                IADDRESS (EDF$AB_FORMAT_TABLE_KEY),
                                IADDRESS (EDF$AB_FORMAT_TABLE_STA),
                                FALSE,
                                0
                                );

                SEG_TYPE :

                PARSE_INPUT (
                                IADDRESS (EDF$AB_TYPE_TABLE_KEY),
                                IADDRESS (EDF$AB_TYPE_TABLE_STA),
                                FALSE,
                                0
                                );

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

            TEST.QUALIFIER      := INPUT_VALUE;

        END;    { IF QUALIFIER_VALUED }

        IF SEC_TYPE[TEST.SECONDARY].NUM THEN

        BEGIN

            TEMP_MAX    := SECONDARY_MAX[TEST.SECONDARY];

            IF (TEST.SECONDARY IN

            [ DATA_KEY_COMPRESSION,
            DATA_RECORD_COMPRESSION,
            INDEX_COMPRESSION ]

            ) THEN
```

```
    WRITE ('Abs<100)')

ELSE IF TEMP_MAX = EDF$C_1GIGA THEN

    WRITE ('0-1Giga)')

ELSE

    WRITE ('0-',TEMP_MAX:NUM_LEN(TEMP_MAX),')');

WRITE (ANSI_REVERSE,'[-]',ANSI_RESET);

IF (
(NUM_LEN(TEMP_MAX) > 8)
AND
(TEMP_MAX <> EDF$C_1GIGA)
) THEN

    WRITE (' : ')

ELSE

    WRITE ('        : ');

NUMBER_INPUT (TEST.NUMBER,FALSE,0);

IF (TEST.SECONDARY IN

[ DATA_KEY_COMPRESSION,
DATA_RECORD_COMPRESSION,
INDEX_COMPRESSION ]

) THEN

BEGIN

    IF (
    ((VDATA[EDF$K_PROLOGUE_VERSION])
    AND (IDATA[EDF$K_PROLOGUE_VERSION] < 3))
    AND
    (TEST.NUMBER <> 0)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    IF (
    (TEST.NUMBER < -TEMP_MAX)
    OR
    (TEST.NUMBER > TEMP_MAX)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

END

ELSE IF TEST.SECONDARY = CONTROL_FIELD_SIZE THEN
```

```
            BEGIN

                IF (
                (TEST.NUMBER < 1)
                OR
                (TEST.NUMBER > TEMP_MAX)
                ) THEN

                    LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

            END

            ELSE

            BEGIN

                IF (
                (TEST.NUMBER < 0)
                OR
                (TEST.NUMBER > TEMP_MAX)
                ) THEN

                    LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

            END;

            IF (
            (TEST.SECONDARY = MT_BLOCK_SIZE)
            AND
            (TEST.NUMBER > 0)
            AND
            (TEST.NUMBER < 20)
            ) THEN

                LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        END;    { IF NUMBER_VALUED }

        IF (
        (SEC_TYPE[TEST.SECONDARY].STR)
        OR
        (TEST.PRIMARY = TITLE)
        ) THEN

        BEGIN

            IF TEST.PRIMARY = DATE THEN

                WRITE ('Date-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'      : ')

            ELSE IF TEST.SECONDARY = NAMES THEN

                WRITE ('1-32 chars)[null]       : ')

            ELSE

                WRITE ('1-126 chars)[null]',CRLF_SHIFT,': ');
```

```
IF EOF (INPUT) THEN

BEGIN

    RESET (INPUT);
    LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

END;

READLN (TEMP_STRING255);
WRITELN (CRLF);

TEST.STRING := NULL_STRING;
STR$TRIM (TEST.STRING,TEMP_STRING255);
LIB$SCOPY_DXDX (TEST.STRING,INPUT_DESC);
PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

{ +
If we're journaling our input, save a copy of it to the
journal file.
- }
IF JOURNAL_ENABLED THEN

    IF TEST.STRING.DSC$W_LENGTH > 0 THEN

        WRITELN (
            JOURNAL_FILE,
            TEST.STRING.DSC$A_POINTER^:
                TEST.STRING.DSC$W_LENGTH
            )

    ELSE

        WRITELN (JOURNAL_FILE);

IF TEST.PRIMARY = DATE THEN

BEGIN

    STR$UPCASE (TEST.STRING,TEST.STRING);

    IF TEST.STRING.DSC$W_LENGTH = 0 THEN

    BEGIN

        STR$FREE1_DX (TEST.STRING);
        LIB$SIGNAL (EDF$_NODEFAULT,0,0,0);

    END;

    { +
    Copy the upcased string back into the temp_string255
    for the test.
    - }
    FOR I := 1 TO TEST.STRING.DSC$W_LENGTH DO
```

```
                TEMP_STRING255[I]   := TEST.STRING.DSC$A_POINTER^[I];

            IF (
            NOT ODD ( $BINTIM (TEMP_STRING255,QUAD_TIME) )
            ) THEN

            BEGIN

                STR$FREE1_DX (TEST.STRING);
                LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

            END;

        END;        { IF TEST.PRIMARY = DATE }

        IF (
        (
        (TEST.SECONDARY = NAMES)
        AND
        (TEST.STRING.DSC$W_LENGTH > 32)
        )
        OR
        (TEST.STRING.DSC$W_LENGTH > 126)
        ) THEN

        BEGIN

            STR$FREE1_DX (TEST.STRING);
            LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

        END;

    END;    { IF STRING_VALUED }

    IF SEC_TYPE[TEST.SECONDARY].SW THEN

    BEGIN

        WRITE ('Yes/No)',ANSI_REVERSE,'[-]',ANSI_RESET,'    : ');
        PARSE_INPUT (
                    IADDRESS (EDF$AB_YES_NO_TABLE_KEY),
                    IADDRESS (EDF$AB_YES_NO_TABLE_STA),
                    FALSE,
                    0
                    );

        TEST.SWITCH := (INPUT_VALUE = EDF$K_YES);

        IF (
        (TEST.PRIMARY = KEY)
        AND
        (TEST.PRINUM = 0)
        AND
        (TEST.SECONDARY = CHANGES)
        AND
        (TEST.SWITCH = TRUE)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    IF (
    (TEST.PRIMARY = RECORDS)
    AND
    (TEST.SECONDARY = BLOCK_SPAN)
    AND
    (TEST.SWITCH = TRUE)
    ) THEN

    BEGIN

        IF FIND_OBJECT (SEC,FILES,0,ORGANIZATION,0) THEN

        BEGIN

            IF DEF_CURRENT^.QUALIFIER <> FDL$C_SEQ THEN

                LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        END;

    END;

END;    { IF SWITCH_VALUED }

IF TEST.SECONDARY = OWNER THEN

BEGIN

    EDF$GL_OWNER_UIC    := 0;

    WRITE ('UIC-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'   : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_UIC_TABLE_KEY),
                IADDRESS (EDF$AB_UIC_TABLE_STA),
                FALSE,
                0
                );

    TEST.OWNER_UIC      := EDF$GL_OWNER_UIC;

END;    { IF TEST.SECONDARY = OWNER }

IF TEST.SECONDARY = PROTECTION THEN

BEGIN

    FOR I := 0 TO 31 DO

        EDF$GL_PROT_MASK[I]     := FALSE;

    WRITE ('Prot-str)',ANSI_REVERSE,'[-]',ANSI_RESET,CRLF_SHIFT,': ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_PROT_TABLE_KEY),
                IADDRESS (EDF$AB_PROT_TABLE_STA),
                FALSE,
                0
                );

    TEST.PROT_MASK      := EDF$GL_PROT_MASK;

END;      { IF TEST.SECONDARY = PROTECTION }

IF TEST.SECONDARY = POSITIONS THEN

BEGIN

    WRITE ('Keyword)',ANSI_REVERSE,'[-]',ANSI_RESET,'   : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_POSIT_TABLE_KEY),
                IADDRESS (EDF$AB_POSIT_TABLE_STA),
                FALSE,
                0
                );

    TEST.QUALIFIER      := INPUT_VALUE;

    IF NOT (TEST.QUALIFIER IN [ FDL$C_NOPOS, FDL$C_ANYPOS ]) THEN

    BEGIN

        WRITE (CRLF_SHIFT,'Enter POSITION value         (');

        CASE TEST.QUALIFIER OF

            FDL$C_CLUSPOS, FDL$C_CYLPOS, FDL$C_LOGPOS, FDL$C_VIRPOS :

            BEGIN

                WRITE ('0-1Giga)',ANSI_REVERSE,'[-]',ANSI_RESET,'         : ');
                NUMBER_INPUT (TEST.NUMBER,FALSE,0);

            END;

            FDL$C_FIDPOS :

            BEGIN

                EDF$GL_FID1     := 0;
                EDF$GL_FID2     := 0;
                EDF$GL_FID3     := 0;

                WRITE ('FID-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'         : ');
                PARSE_INPUT (
                            IADDRESS (EDF$AB_FID_TABLE_KEY),
                            IADDRESS (EDF$AB_FID_TABLE_STA),
                            FALSE,
                            0
                            );

                TEST.FID1               := EDF$GL_FID1;
        TEST.FID2               := EDF$GL_FID2;
        TEST.FID3               := EDF$GL_FID3;

    END;

    FDL$C_FNMPOS :

    BEGIN

        WRITE ('1-109 chars)[NULL]',CRLF_SHIFT,': ');

        IF EOF (INPUT) THEN

        BEGIN

            RESET (INPUT);
            LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

        END;

        READLN (TEMP_STRING255);
        WRITELN (CRLF);

        TEST.STRING     := NULL_STRING;
        STR$TRIM (TEST.STRING,TEMP_STRING255);
        LIB$SCOPY_DXDX (TEST.STRING,INPUT_DESC);
        PARAM_BLOCK.TPA$L_TOKENPTR      := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
        PARAM_BLOCK.TPA$L_TOKENCNT      := INPUT_DESC.DSC$W_LENGTH;

        { +
        If we're journaling our input, save a copy of it to the
        journal file.
        - }
        IF JOURNAL_ENABLED THEN

            IF TEST.STRING.DSC$W_LENGTH > 0 THEN

                WRITELN (
                    JOURNAL_FILE,
                    TEST.STRING.DSC$A_POINTER^:
                        TEST.STRING.DSC$W_LENGTH
                    )

            ELSE

                WRITELN (JOURNAL_FILE);

        IF TEST.STRING.DSC$W_LENGTH > 109 THEN

            LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

    END;

OTHERWISE

    { NULL-STATEMENT } ;
```

```
        END;    { CASE }

    END;        { IF NOT (TEST.QUALIFIER IN [ FDL$C_NOPOS, FDL$C_ANYPOS ]) }

END;    { IF TEST.SECONDARY = POSITION$ }

IF (
(TEST.SECONDARY = NULL_VALUE)
OR
(TEST.SECONDARY = MT_PROTECTION)
) THEN

BEGIN

    WRITE ('''char''/num)',ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');


    IF EOF (INPUT) THEN

    BEGIN

        RESET (INPUT);
        LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

    END;

    READLN (TEMP_STRING255);
    WRITELN (CRLF);

    TEMP_DESC   := NULL_STRING;
    STR$TRIM (TEMP_DESC,TEMP_STRING255);
    LIB$SCOPY_DXDX (TEMP_DESC,INPUT_DESC);
    PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
    PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

    { +
    If we're journaling our input, save a copy of it to the
    journal file.
    - }
    IF JOURNAL_ENABLED THEN

        IF TEMP_DESC.DSC$W_LENGTH > 0 THEN

            WRITELN (
                JOURNAL_FILE,
                TEMP_DESC.DSC$A_POINTER^:
                    TEMP_DESC.DSC$W_LENGTH
                )

        ELSE

            WRITELN (JOURNAL_FILE);

    IF TEMP_DESC.DSC$W_LENGTH = 0 THEN

    BEGIN
```

```
        STR$FREE1_DX (TEMP_DESC);
        LIB$SIGNAL (EDF$_NODEFAULT,0,0,0);

    END;

    ISTATUS             := OTS$CVT_TI_L (TEMP_DESC,TEMP_INT);

    IF ODD (ISTATUS) THEN

        TEST.NUMBER     := TEMP_INT

    ELSE IF (
    (TEMP_DESC.DSC$A_POINTER^[1] <> APOSTROPHE)
    OR
    (TEMP_DESC.DSC$A_POINTER^[3] <> APOSTROPHE)
    ) THEN

    BEGIN

        STR$FREE1_DX (TEMP_DESC);
        LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

    END

    ELSE

        TEST.NUMBER     := ORD (TEMP_DESC.DSC$A_POINTER^[2]);

    IF TEST.SECONDARY = MT_PROTECTION THEN

    BEGIN

        { +
        Make sure it's a legal ANSI-a character.
        - }
        IF (
        (TEST.NUMBER < %X20)    { SPACE }
        OR
        (TEST.NUMBER > %X5A)    { CAPITAL Z }
        OR
        (TEST.NUMBER = %X23)    { # }
        OR
        (TEST.NUMBER = %X24)    { $ }
        OR
        (TEST.NUMBER = %X40)    { @ }
        ) THEN

        BEGIN

            STR$FREE1_DX (TEMP_DESC);
            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        END;

    END; { IF TEST.SECONDARY = MT_PROTECTION }

END;    { IF TEST.SECONDARY = NULL_VALUE OR MT_PROTECTION }
```

```

            { +
            Make sure this is true only for one cycle.
            - }
            TEMP_FULL_PROMPT        := FALSE;

        END;        { THE_QUESTION }

    BEGIN

        IF TEST.PRIMARY = TITLE THEN

            TEST.OBJECT_TYPE        := PRI

        ELSE

            TEST.OBJECT_TYPE        := SEC;

        { +
        Keep at it until the user gets it right.
        - }
        REPEAT

            THE_QUESTION;

        UNTIL NOT SYS$INPUT_ERROR;

        STR$FREE1_DX (INPUT_DESC);

    END;            { ASK_TEST_SECONDARY_VALUE }

    END.
        { End of file: SRC$:EDFASK.PAS }
```

```
                                                                          .TITLE  EDFASK
                                                                          .IDENT  \V04-000\

                                                           00000          .PSECT  $CODE,PIC,CON,REL,LCL,SHR,EXE,RD,NOWRT,2

74  65  6C  20  32  20  65  68  74  20  65  70  79  54     00000 C.AAA:   .ASCII  \Type the 2 letter mnemonic of the select\-
6F  20  63  69  6E  6F  6D  65  6E  6D  20  72  65  74     0000E                  \ed option.\<0><0>
64  65  74  63  65  6C  65  73  20  65  68  74  20  66     0001C
                00  00  2E  6E  6F  69  74  70  6F  20     0002A
74  73  20  65  68  74  20  73  69  20  73  69  68  54     00034 C.AAB:   .ASCII  \This is the starting byte of the key or \-
66  6F  20  65  74  79  62  20  67  6E  69  74  72  61     00042                  \key segment.\
65  6B  20  72  6F  20  79  65  6B  20  65  68  74  20     00050
                2E  74  6E  65  6D  67  65  73  20  79     0005E
6F  74  20  73  72  65  66  65  72  20  73  69  68  54     00068 C.AAC:   .ASCII  \This refers to records that are added to\-
20  74  61  68  74  20  73  64  72  6F  63  65  72  20     00076                  \ the\
74  20  6F  74  20  64  65  64  64  61  20  65  72  61     00084
                                                65  68     00092
20  74  69  20  72  65  74  66  61  20  65  6C  69  66     00094 C.AAD:   .ASCII  \file after it is initially loaded.\<0><0>
6C  20  79  6C  6C  61  69  74  69  6E  69  20  73  69     000A2
                        00  00  2E  64  65  64  61  6F     000B0
6F  20  73  65  6C  62  61  6E  65  20  73  69  68  54     000B8 C.AAE:   .ASCII  \This enables or disables the RMS option.\
65  68  74  20  73  65  6C  62  61  73  69  64  20  72     000C6
        2E  6E  6F  69  74  70  6F  20  53  4D  52  20     000D4
6F  20  73  65  6C  62  61  6E  65  20  73  69  68  54     000E0 C.AAF:   .ASCII  \This enables or disables the RMS option.\
65  68  74  20  73  65  6C  62  61  73  69  64  20  72     000EE
        2E  6E  6F  69  74  70  6F  20  53  4D  52  20     000FC
65  6B  20  67  6E  69  72  74  73  20  68  63  61  45     00108 C.AAG:   .ASCII  \Each string key may consist of up to 8 p\-
20  74  73  69  73  6E  6F  63  20  79  61  6D  20  79     00116                  \arts.\<0><0><0>
72  61  70  20  38  20  6F  74  20  70  75  20  66  6F     00124
                                00  00  00  2E  73  74     00132
20  79  6C  6C  61  75  73  75  20  65  73  65  68  54     00138 C.AAH:   .ASCII  \These usually increase the speed of file\-
73  20  65  68  74  20  65  73  61  65  72  63  6E  69     00146                  \ sharing.\<0><0><0>
73  20  65  6C  69  66  20  66  6F  20  64  65  65  70     00154
                00  00  00  2C  67  6E  69  72  61  68     00162
65  73  6E  65  70  78  65  20  65  68  74  20  74  61     0016C C.AAI:   .ASCII  \at the expense of using more physical me\-
65  72  6F  6D  20  67  6E  69  73  75  20  66  6F  20     0017A                  \mory.\<0><0><0>
6F  6D  65  6D  20  6C  61  63  69  73  79  68  70  20     00188
                                00  00  00  2E  79  72     00196
6E  61  65  6D  20  63  69  74  61  6D  6F  74  75  41     0019C C.AAJ:   .ASCII  \Automatic means the default answers will\-
20  74  6C  75  61  66  65  64  20  65  68  74  20  73     001AA                  \ be used without\
62  20  6C  6C  69  77  20  73  72  65  77  73  6E  61     001B8
74  75  6F  68  74  69  77  20  64  65  73  75  20  65     001C6
6F  63  20  72  6F  66  20  67  6E  69  74  69  61  77     001D4 C.AAK:   .ASCII  \waiting for confirmation.\<0><0><0>
00  00  00  2E  6E  6F  69  74  61  6D  72  69  66  6E     001E2
20  73  6C  6F  72  74  6E  6F  63  20  73  69  68  54     001F0 C.AAL:   .ASCII  \This controls whether full menus are dis\-
6D  20  6C  6C  75  66  20  72  65  68  74  65  68  77     001FE                  \played.\<0>
6C  70  73  69  64  20  65  72  61  20  73  75  6E  65     0020C
                                00  2E  64  65  79  61     0021A
65  74  65  64  20  6C  6C  69  77  20  73  69  68  54     00220 C.AAM:   .ASCII  \This will determine the allocation of th\-
6F  6C  6C  61  20  65  68  74  20  65  6E  69  6D  72     0022E                  \e file.\<0>
20  65  68  74  20  66  6F  20  6E  6F  69  74  61  63     0023C
                                00  2E  65  6C  69  66     0024A
6F  74  20  73  72  65  66  65  72  20  73  69  68  54     00250 C.AAN:   .ASCII  \This refers to the order of the initial \-
20  66  6F  20  72  65  64  72  6F  20  65  68  74  20     0025E                  \records loaded.\<0>
65  72  20  6C  61  69  74  69  6E  69  20  65  68  74     0026C
00  2E  64  65  64  61  6F  6C  20  73  64  72  6F  63     0027A
20  65  68  74  20  65  72  61  20  65  73  65  68  54     00288 C.AAO:   .ASCII  \These are the records initially loaded i\-
```

```
61    69    74    69    6E    69    20    73    64    72    6F    63    65    72      00296                  \nto the file.\<0><0><0>
74    6E    69    20    64    65    64    61    6F    6C    20    79    6C    6C      002A4
00    00    00    2E    65    6C    69    66    20    65    68    74    20    6F      002B2
69    77    20    65    6C    69    66    20    65    68    74    20    66    49      002C0 C.AAP:  .ASCII  \If the file will have no "Load" operatio\-
6F    4C    22    20    6F    6E    20    65    76    61    68    20    6C    6C      002CE                  \n, specify "0".\<0>
2C    6E    6F    69    74    61    72    65    70    6F    20    22    64    61      002DC
00    2E    22    30    22    20    79    66    69    63    65    70    73    20      002EA
20    65    68    74    20    65    72    61    20    65    73    65    68    54      002F8 C.AAQ:  .ASCII  \These are the records added after the in\-
20    64    65    64    64    61    20    73    64    72    6F    63    65    72      00306                  \itial file load.\
74    69    6E    69    20    65    68    74    20    72    65    74    66    61      00314
2E    64    61    6F    6C    20    65    6C    69    66    20    6C    61    69      00322
65    72    20    68    63    61    65    20    2C    6F    6E    20    66    49      00330 C.AAR:  .ASCII  \If no, each record plus overhead must fi\-
72    65    76    6F    20    73    75    6C    70    20    64    72    6F    63      0033E                  \t in a disk block.\<0><0>
20    74    69    66    20    74    73    75    6D    20    64    61    65    68      0034C
63    6F    6C    62    20    6B    73    69    64    20    61    20    6E    69      0035A
                                                            00    00    2E    6B      00368
61    70    73    20    65    6D    6F    73    20    2C    6F    73    6C    41      0036C C.AAS:  .ASCII  \Also, some space may be wasted at the en\-
74    73    61    77    20    65    62    20    79    61    6D    20    65    63      0037A                  \d of blocks.\
20    64    6E    65    20    65    68    74    20    74    61    20    64    65      00388
                        2E    73    6B    63    6F    6C    62    20    66    6F      00396
65    6C    20    65    68    74    20    73    69    20    73    69    68    54      003A0 C.AAT:  .ASCII  \This is the length of the key (segment) \-
65    6B    20    65    68    74    20    66    6F    20    68    74    67    6E      003AE                  \in bytes.\<0><0><0>
6E    69    20    29    74    6E    65    6D    67    65    73    28    20    79      003BC
                        00    00    00    2E    73    65    74    79    62    20      003CA
65    73    2D    69    74    6C    75    6D    20    68    74    69    57    28      003D4 C.AAU:  .ASCII  \(With multi-segment keys, answer "0" aft\-
6E    61    20    2C    73    79    65    6B    20    74    6E    65    6D    67      003E2                  \er the last segment.)\<0><0><0>
72    65    74    66    61    20    22    30    22    20    72    65    77    73      003F0
6D    67    65    73    20    74    73    61    6C    20    65    68    74    20      003FE
                                    00    00    00    29    2E    74    6E    65      0040C
6F    74    20    73    72    65    66    65    72    20    73    69    68    54      00414 C.AAV:  .ASCII  \This refers to the structure level of th\-
65    72    75    74    63    75    72    74    73    20    65    68    74    20      00422                  \e data file.\
20    65    68    74    20    66    6F    20    6C    65    76    65    6C    20      00430
                        2E    65    6C    69    66    20    61    74    61    64      0043E
6C    20    30    20    66    6F    20    65    75    6C    61    76    20    41      00448 C.AAW:  .ASCII  \A value of 0 lets RMS choose an appropri\-
65    73    6F    6F    68    63    20    53    4D    52    20    73    74    65      00456                  \ate prolog.\<0>
74    61    69    72    70    6F    72    70    70    61    20    6E    61    20      00464
                        00    2E    67    6F    6C    6F    72    70    20    65      00472
2F    65    7A    79    6C    61    6E    41    20    6E    61    20    66    49      0047C C.AAX:  .ASCII  \If an Analyze/RMS indicates little compr\-
20    73    65    74    61    63    69    64    6E    69    20    53    4D    52      0048A                  \ession is acheived\<0><0>
73    65    72    70    6D    6F    63    20    65    6C    74    74    69    6C      00498
76    69    65    68    63    61    20    73    69    20    6E    6F    69    73      004A6
                                                            00    00    64    65      004B4
6F    4E    20    72    65    77    73    6E    61    20    6E    65    68    74      004B8 C.AAY:  .ASCII  \then answer No, otherwise it is usually \-
74    69    20    65    73    69    77    72    65    68    74    6F    20    2C      004C6                  \better to answer Yes.\<0><0><0>
65    62    20    79    6C    6C    61    75    73    75    20    73    69    20      004D4
72    65    77    73    6E    61    20    6F    74    20    72    65    74    74      004E2
                                    00    00    00    2E    73    65    59    20      004F0
55    46    2F    45    43    49    56    45    44    20    57    4F    48    53      004F8 C.AAZ:  .ASCII  \SHOW DEVICE/FULL can be used to determin\-
64    65    73    75    20    65    62    20    6E    61    63    20    4C    4C      00506                  \e this value.\<0><0><0>
20    65    6E    69    6D    72    65    74    65    64    20    6F    74    20      00514
00    00    00    2E    65    75    6C    61    76    20    73    69    68    74      00522
6F    74    20    73    72    65    66    65    72    20    73    69    68    54      00530 C.ABA:  .ASCII  \This refers to the orderring of addition\-
67    6E    69    72    72    65    64    72    6F    20    65    68    74    20      0053E                  \al records.\<0>
6C    61    6E    6F    69    74    69    64    64    61    20    66    6F    20      0054C
                        00    2E    73    64    72    6F    63    65    72    20      0055A
73    69    20    65    67    6E    61    72    20    6C    61    67    65    4C      00564 C.ABB:  .ASCII  \Legal range is 1 to 63 blocks per bucket\-
68    63    6F    6C    62    20    33    36    20    6F    74    20    31    20      00572                  \, and buckets must\<0><0>
```

```
20  2C  74  65  6B  63  75  62  20  72  65  70  20  73    00580
75  6D  20  73  74  65  6B  63  75  62  20  64  6E  61    0058E
                                        00  00  74  73    0059C
67  75  6F  6E  65  20  65  67  72  61  6C  20  65  62    005A0 C.ABC:  .ASCII  \be large enough to hold at least 1 recor\-
6C  20  74  61  20  64  6C  6F  68  20  6F  74  20  68    005AE                 \d plus overhead.\
20  64  72  6F  63  65  72  20  31  20  74  73  61  65    005BC
2E  64  61  65  68  72  65  76  6F  20  73  75  6C  70    005CA
72  65  66  66  75  42  5F  72  65  6C  6C  61  6D  53    005D8 C.ABD:  .ASCII  \Smaller_Buffers: less memory and RMS pro\-
79  72  6F  6D  65  6D  20  73  73  65  6C  20  3A  73    005E6                 \cessing used\
65  63  6F  72  70  20  53  4D  52  20  64  6E  61  20    005F4
                64  65  73  75  20  67  6E  69  73  73    00602
3A  73  65  6C  69  46  5F  72  65  74  74  61  6C  46    0060C C.ABE:  .ASCII  \Flatter_Files:   fewer actual disk acces\-
61  75  74  63  61  20  72  65  77  65  66  20  20  20    0061A                 \ses needed\<0><0>
65  73  73  65  63  63  61  20  6B  73  69  64  20  6C    00628
                00  00  64  65  64  65  65  6E  20  73    00636
20  3A  73  65  75  6C  61  76  20  6C  61  67  65  4C    00640 C.ABF:  .ASCII  \Legal values: Fast_Convert, NoFast_Conve\-
20  2C  74  72  65  76  6E  6F  43  5F  74  73  61  46    0064E                 \rt, RMS_Puts\
74  72  65  76  6E  6F  43  5F  74  73  61  46  6F  4E    0065C
                73  74  75  50  5F  53  4D  52  20  2C    0066A
20  3A  74  72  65  76  6E  6F  43  5F  74  73  61  46    00674 C.ABG:  .ASCII  \Fast_Convert:   using the VAX-11 Convert\-
41  56  20  65  68  74  20  67  6E  69  73  75  20  20    00682                 \/Fast_Load option\<0><0><0>
46  2F  74  72  65  76  6E  6F  43  20  31  31  2D  58    00690
6F  69  74  70  6F  20  64  61  6F  4C  5F  74  73  61    0069E
                                        00  00  00  6E    006AC
74  72  65  76  6E  6F  43  5F  74  73  61  46  6F  4E    006B0 C.ABH:  .ASCII  \NoFast_Convert: using the VAX-11 Convert\-
41  56  20  65  68  74  20  67  6E  69  73  75  20  3A    006BE                 \/NoFast_Load option\<0>
4E  2F  74  72  65  76  6E  6F  43  20  31  31  2D  58    006CC
74  70  6F  20  64  61  6F  4C  5F  74  73  61  46  6F    006DA
                                        00  6E  6F  69    006E8
20  20  20  20  20  3A  73  74  75  50  5F  53  4D  52    006EC C.ABI:  .ASCII  \RMS_Puts:        writing to a file from a\-
61  20  6F  74  20  67  6E  69  74  69  72  77  20  20    006FA                 \ High Level Language\
48  20  61  20  6D  6F  72  66  20  65  6C  69  66  20    00708
67  6E  61  4C  20  6C  65  76  65  4C  20  68  67  69    00716
                                        65  67  61  75    00724
6E  69  20  65  68  74  20  73  69  20  73  69  68  54    00728 C.ABJ:  .ASCII  \This is the initial file loading fill fa\-
61  6F  6C  20  65  6C  69  66  20  6C  61  69  74  69    00736                 \ctor.\<0><0><0>
74  63  61  66  20  6C  6C  69  66  20  67  6E  69  64    00744
                                00  00  00  2E  72  6F    00752
42  20  3A  73  65  70  79  74  20  6C  61  67  65  4C    00758 C.ABK:  .ASCII  \Legal types: Bin2 Bin4 Bin8 Int2 Int4 In\-
20  38  6E  69  42  20  34  6E  69  42  20  32  6E  69    00766                 \t8 Decimal String\<0><0><0>
38  74  6E  49  20  34  74  6E  49  20  32  74  6E  49    00774
6E  69  72  74  53  20  6C  61  6D  69  63  65  44  20    00782
                                        00  00  00  67    00790
                                        00  65  73  55    00794 C.ABL:  .ASCII  \Use\<0>
66  20  73  65  70  79  74  20  22  78  6E  69  42  22    00798 C.ABM:  .ASCII  \"Binx" types for unsigned binary keys of\-
69  62  20  64  65  6E  67  69  73  6E  75  20  72  6F    007A6                 \ 2, 4 or 8 bytes.\<0><0><0>
32  20  66  6F  20  73  79  65  6B  20  79  72  61  6E    007B4
73  65  74  79  62  20  38  20  72  6F  20  34  20  2C    007C2
                                        00  00  00  2C    007D0
66  20  73  65  70  79  74  20  22  78  74  6E  49  22    007D4 C.ABN:  .ASCII  \"Intx" types for signed binary key of 2,\-
61  6E  69  62  20  64  65  6E  67  69  73  20  72  6F    007E2                 \ 4 or 8 bytes.\<0><0>
34  20  2C  32  20  66  6F  20  79  65  6B  20  79  72    007F0
00  00  2C  73  65  74  79  62  20  38  20  72  6F  20    007FE
65  70  79  74  20  22  6C  61  6D  69  63  65  44  22    0080C C.ABO:  .ASCII  \"Decimal" type for packed decimal key of\-
65  64  20  64  65  6B  63  61  70  20  72  6F  66  20    0081A                 \ 1 to 16 bytes.\<0>
31  20  66  6F  20  79  65  6B  20  6C  61  6D  69  63    00828
00  2C  73  65  74  79  62  20  36  31  20  6F  74  20    00836
```

```
20  65  70  79  74  20  22  67  6E  69  72  74  53  22      00844 C.ABP:   .ASCII   \''String'' type for character string key o\-
20  72  65  74  63  61  72  61  68  63  20  72  6F  66      00852                   \f 1 to 255 bytes.\<0><0><0>
20  66  6F  20  79  65  6B  20  67  6E  69  72  74  73      00860
73  65  74  79  62  20  35  35  32  20  6F  74  20  31      0086E
                                        00  00  00  2E      0087C
20  73  65  6C  69  66  20  64  65  78  65  64  6E  49      00880 C.ABQ:   .ASCII   \Indexed files are only Fixed or Variable\-
64  65  78  69  46  20  79  6C  6E  6F  20  65  72  61      0088E                   \.\<0><0><0>
00  2E  65  6C  62  61  69  72  61  56  20  72  6F  20      0089C
                                                00  00      008AA
20  74  61  6D  72  6F  66  20  6D  61  65  72  74  53      008AC C.ABR:   .ASCII   \Stream format (Seq only) is Stream, Stre\-
20  73  69  20  29  79  6C  6E  6F  20  71  65  53  28      008BA                   \am_CR, or Stream_LF.\
6D  61  65  72  74  53  20  2C  6D  61  65  72  74  53      008C8
6D  61  65  72  74  53  20  72  6F  20  2C  52  43  5F      008D6
                                        2E  46  4C  5F      008E4
65  72  6C  61  20  6E  61  20  74  63  65  6C  65  53      008E8 C.ABS:   .ASCII   \Select an already defined key.\<0><0>
65  6B  20  64  65  6E  69  66  65  64  20  79  64  61      008F6
                                        00  00  2E  79      00904
6C  69  66  20  64  65  78  65  64  6E  49  20  6E  41      00908 C.ABT:   .ASCII   \An Indexed file can have from 1 to 255 k\-
6F  72  66  20  65  76  61  68  20  6E  61  63  20  65      00916                   \eys.\
79  65  6B  20  35  35  32  20  6F  74  20  31  20  6D      00924
                                                2E  73      00932
6F  74  20  73  72  65  66  65  72  20  73  69  68  54      00934 C.ABU:   .ASCII   \This refers to the Fixed portion of the \-
72  6F  70  20  64  65  78  69  46  20  65  68  74  20      00942                   \record.\<0>
65  72  20  65  68  74  20  66  6F  20  6E  6F  69  74      00950
                                00  2E  64  72  6F  63      0095E
6F  74  20  73  72  65  66  65  72  20  73  69  68  54      00964 C.ABV:   .ASCII   \This refers to the records in the data f\-
69  20  73  64  72  6F  63  65  72  20  65  68  74  20      00972                   \ile.\
6C  69  66  20  61  74  61  64  20  65  68  74  20  6E      00980
                                                2E  65      0098E
20  65  68  74  20  73  74  65  73  20  73  69  68  54      00990 C.ABW:   .ASCII   \This sets the longest record that can be\-
64  72  6F  63  65  72  20  74  73  65  67  6E  6F  6C      0099E                   \ stored in the file.\
73  20  65  62  20  6E  61  63  20  74  61  68  74  20      009AC
66  20  65  68  74  20  6E  69  20  64  65  72  6F  74      009BA
                                        2E  65  6C  69      009C8
30  20  66  6F  20  6D  75  6D  69  78  61  6D  20  41      009CC C.ABX:   .ASCII   \A maximum of 0 will set no explicit maxi\-
65  20  6F  6E  20  74  65  73  20  6C  6C  69  77  20      009DA                   \mum.\
75  6D  69  78  61  6D  20  74  69  63  69  6C  70  78      009E8
                                                2E  6D      009F6
20  65  68  74  20  73  74  65  73  20  73  69  68  54      009F8 C.ABY:   .ASCII   \This sets the Record attributes of the f\-
75  62  69  72  74  74  61  20  64  72  6F  63  65  52      00A06                   \ile.\
6C  69  66  20  65  68  74  20  66  6F  20  73  65  74      00A14
                                                2E  65      00A22
69  6E  49  20  3A  64  6E  75  6F  62  20  77  6F  4C      00A24 C.ABZ:   .ASCII   \Low bound: Initial Load of Recs\<9>\(0-1\-
52  20  66  6F  20  64  61  6F  4C  20  6C  61  69  74      00A32                   \Giga)[0]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  30  28  09  73  63  65      00A40
                                00  20  3A  09  5D  30      00A4E
6E  49  20  3A  64  6E  75  6F  62  20  68  67  69  48      00A54 C.ACA:   .ASCII   \High bound: Initial Load of Recs(\<0>-
20  66  6F  20  64  61  6F  4C  20  6C  61  69  74  69      00A62                   <0><0>
                        00  00  00  28  73  63  65  52      00A70
                        5B  29  61  67  69  47  31  2D      00A78 C.ACB:   .ASCII   \-1Giga)[\
                                        00  20  3A  09      00A80 C.ACC:   .ASCII   <9>\: \<0>
                                        00  20  3A  20      00A84 C.ACD:   .ASCII   \ : \<0>
6D  75  4E  20  3A  64  6E  75  6F  62  20  77  6F  4C      00A88 C.ACE:   .ASCII   \Low bound: Number of Added Recs\<9>\(0-1\-
52  20  64  65  64  64  41  20  66  6F  20  72  65  62      00A96                   \Giga)[0]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  30  28  09  73  63  65      00AA4
                                00  20  3A  09  5D  30      00AB2
75  4E  20  3A  64  6E  75  6F  62  20  68  67  69  48      00AB8 C.ACF:   .ASCII   \High bound: Number of Added Recs(\<0>-
 20  64  65  64  64  41  20  66  6F  20  72  65  62  6D     00AC6                     <0><0>
                         00  00  00  28  73  63  65  52     00AD4
                         5B  29  61  67  69  47  31  2D     00ADC C.ACG:   .ASCII   \-1Giga)[\
                                         00  20  3A  09     00AE4 C.ACH:   .ASCII   <9>\: \<0>
                                         00  20  3A  20     00AE8 C.ACI:   .ASCII   \ : \<0>
 79  65  4B  20  3A  64  6E  75  6F  62  20  77  6F  4C     00AEC C.ACJ:   .ASCII   \Low bound: Key\<0><0>
                                                 00  00     00AFA
         00  2D  31  28  09  68  74  67  6E  65  4C  20     00AFC C.ACK:   .ASCII   \ Length\<9>\(1-\<0>
                         00  20  3A  09  5D  31  5B  29     00B08 C.ACL:   .ASCII   \)[1]\<9>\: \<0>
 65  4B  20  3A  64  6E  75  6F  62  20  68  67  69  48     00B10 C.ACM:   .ASCII   \High bound: Key\<0>
                                                 00  79     00B1E
                 00  28  09  68  74  67  6E  65  4C  20     00B20 C.ACN:   .ASCII   \ Length\<9>\(\<0>
                                                 5B  29     00B2A C.ACO:   .ASCII   \)[\
                                         20  3A  09  5D     00B2C C.ACP:   .ASCII   \]\<9>\: \
 63  65  52  20  3A  64  6E  75  6F  62  20  77  6F  4C     00B30 C.ACQ:   .ASCII   \Low bound: Record Size\<9><9>\(1-\<0>
 00  2D  31  28  09  09  65  7A  69  53  20  64  72  6F     00B3E
                         00  20  3A  09  5D  31  5B  29     00B4C C.ACR:   .ASCII   \)[1]\<9>\: \<0>
 65  52  20  3A  64  6E  75  6F  62  20  68  67  69  48     00B54 C.ACS:   .ASCII   \High bound: Record Size\<9><9>\(\<0><0>
 00  00  28  09  09  65  7A  69  53  20  64  72  6F  63     00B62
                         00  5D  30  30  30  31  5B  29     00B70 C.ACT:   .ASCII   \)[1000]\<0>
                                         00  20  3A  09     00B78 C.ACU:   .ASCII   <9>\: \<0>
                                         00  20  3A  20     00B7C C.ACV:   .ASCII   \ : \<0>
 79  65  4B  20  3A  64  6E  75  6F  62  20  77  6F  4C     00B80 C.ACW:   .ASCII   \Low bound: Key\<0><0>
                                                 00  00     00B8E
 28  09  25  20  6C  6C  69  46  20  74  69  6E  49  20     00B90 C.ACX:   .ASCII   \ Init Fill %\<9>\(50-100)[50]\<9>\: \
 20  3A  09  5D  30  35  5B  29  30  30  31  2D  30  35     00B9E
 65  4B  20  3A  64  6E  75  6F  62  20  68  67  69  48     00BAC C.ACY:   .ASCII   \High bound: Key\<0>
                                                 00  79     00BBA
 28  09  25  20  6C  6C  69  46  20  74  69  6E  49  20     00BBC C.ACZ:   .ASCII   \ Init Fill %\<9>\(50-100)[100]\<9>\: \<0>
 3A  09  5D  30  30  31  5B  29  30  30  31  2D  30  35     00BCA
                                                 00  20     00BD8
                                                 09  09     00BDA C.ADA:   .ASCII   <9><9>
 20  65  6C  74  69  54  20  74  70  69  72  63  53  20     00BDC C.ADB:   .ASCII   \ Script Title Selection \
                 20  6E  6F  69  74  63  65  6C  65  53     00BEA
 6C  65  64  6F  6D  09  09  79  65  4B  5F  64  64  41     00BF4 C.ADC:   .ASCII   \Add_Key\<9><9>\modeling and addition of \-
 69  74  69  64  64  61  20  64  6E  61  20  67  6E  69     00C02                   \a new index's parameters\<0><0>
 6E  69  20  77  65  6E  20  61  20  66  6F  20  6E  6F     00C10
 65  74  65  6D  61  72  61  70  20  73  27  78  65  64     00C1E
                                         00  00  73  72     00C2C
 6D  65  72  09  79  65  4B  5F  65  74  65  6C  65  44     00C30 C.ADD:   .ASCII   \Delete_Key\<9>\removal of the highest in\-
 69  68  20  65  68  74  20  66  6F  20  6C  61  76  6F     00C3E                   \dex's parameters\
 20  73  27  78  65  64  6E  69  20  74  73  65  68  67     00C4C
                 73  72  65  74  65  6D  61  72  61  70     00C5A
 6C  65  64  6F  6D  09  09  64  65  78  65  64  6E  49     00C64 C.ADE:   .ASCII   \Indexed\<9><9>\modeling of parameters fo\-
 74  65  6D  61  72  61  70  20  66  6F  20  67  6E  69     00C72                   \r an entire Indexed file\<0><0>
 74  6E  65  20  6E  61  20  72  6F  66  20  73  72  65     00C80
 69  66  20  64  65  78  65  64  6E  49  20  65  72  69     00C8E
                                         00  00  65  6C     00C9C
 6E  69  6E  75  74  09  65  7A  69  6D  69  74  70  4F     00CA0 C.ADF:   .ASCII   \Optimize\<9>\tuning of all indices' para\-
 63  69  64  6E  69  20  6C  6C  61  20  66  6F  20  67     00CAE                   \meters using file statistics\
 73  72  65  74  65  6D  61  72  61  70  20  27  73  65     00CBC
 74  73  20  65  6C  69  66  20  67  6E  69  73  75  20     00CCA
                         73  63  69  74  73  69  74  61     00CD8
 63  65  6C  65  73  09  65  76  69  74  61  6C  65  52     00CE0 C.ADG:   .ASCII   \Relative\<9>\selection of parameters for\-
 65  6D  61  72  61  70  20  66  6F  20  6E  6F  69  74     00CEE                   \ a Relative file\
 6C  65  52  20  61  20  72  6F  66  20  73  72  65  74     00CFC
                 65  6C  69  66  20  65  76  69  74  61     00D0A
```

```
6C  65  73  09  6C  61  69  74  6E  65  75  71  65  53    00D14 C.ADH:  .ASCII  \Sequential\<9>\selection of parameters f\-
61  72  61  70  20  66  6F  20  6E  6F  69  74  63  65    00D22                 \or a Sequential file\
53  20  61  20  72  6F  66  20  73  72  65  74  65  6D    00D30
65  6C  69  66  20  6C  61  69  74  6E  65  75  71  65    00D3E
64  6F  6D  65  72  09  09  70  75  68  63  75  6F  54    00D4C C.ADI:  .ASCII  \Touchup\<9><9>\remodeling of parameters \-
6D  61  72  61  70  20  66  6F  20  67  6E  69  6C  65    00D5A                 \for a particular index\
61  70  20  61  20  72  6F  66  20  73  72  65  74  65    00D68
78  65  64  6E  69  20  72  61  6C  75  63  69  74  72    00D76
74  65  6C  65  44  20  79  65  4B  5F  64  64  41  28    00D84 C.ADJ:  .ASCII  \(Add_Key Delete_Key Indexed Optimize\
20  64  65  78  65  64  6E  49  20  79  65  4B  5F  65    00D92
                        65  7A  69  6D  69  74  70  4F    00DA0
75  71  65  53  20  65  76  69  74  61  6C  65  52  20    00DA8 C.ADK:  .ASCII  \ Relative Sequential Touchup)\<0><0><0>
70  75  68  63  75  6F  54  20  6C  61  69  74  6E  65    00DB6
                                        00  00  00  29    00DC4
74  70  69  72  63  53  20  67  6E  69  74  69  64  45    00DC8 C.ADL:  .ASCII  \Editing Script Title\<9><9>\(Keyword)\<0>
6F  77  79  65  4B  28  09  09  65  6C  74  69  54  20    00DD6
                                        00  29  64  72    00DE4
                                        00  5D  2D  5B    00DE8 C.ADM:  .ASCII  \[-]\<0>
                                        00  20  3A  09    00DEC C.ADN:  .ASCII  <9>\: \<0>
20  6F  74  20  22  44  46  22  20  65  70  79  54  28    00DF0 C.ADO:  .ASCII  \(Type "FD" to Finish Design)\
29  6E  67  69  73  65  44  20  68  73  69  6E  69  46    00DFE
72  61  50  20  65  6C  69  46  20  68  63  69  68  57    00E0C C.ADP:  .ASCII  \Which File Parameter\<9>\(Mnemonic)[refr\-
6E  6F  6D  65  6E  4D  28  09  72  65  74  65  6D  61    00E1A                 \esh]\<9>\: \<0>
3A  09  5D  68  73  65  72  66  65  72  5B  29  63  69    00E28
                                                00  20    00E36
                                        00  00  09  09    00E38 C.ADQ:  .ASCII  <9><9><0><0>
20  74  72  65  73  6E  69  20  6F  74  09  64  64  41    00E3C C.ADR:  .ASCII  \Add\<9>\to insert one or more lines into\-
69  6C  20  65  72  6F  6D  20  72  6F  20  65  6E  6F    00E4A                 \ the FDL definition\<0>
46  20  65  68  74  20  6F  74  6E  69  20  73  65  6E    00E58
00  6E  6F  69  74  69  6E  69  66  65  64  20  4C  44    00E66
6F  6D  65  72  20  6F  74  09  65  74  65  6C  65  44    00E74 C.ADS:  .ASCII  \Delete\<9>\to remove one or more lines f\-
65  72  6F  6D  20  72  6F  20  65  6E  6F  20  65  76    00E82                 \rom the FDL definition\<0><0>
68  74  20  6D  6F  72  66  20  73  65  6E  69  6C  20    00E90
69  74  69  6E  69  66  65  64  20  4C  44  46  20  65    00E9E
                                        00  00  6E  6F    00EAC
20  65  76  61  65  6C  20  6F  74  09  74  69  78  45    00EB0 C.ADT:  .ASCII  \Exit\<9>\to leave the FDL Editor after c\-
72  6F  74  69  64  45  20  4C  44  46  20  65  68  74    00EBE                 \reating the FDL file\
6E  69  74  61  65  72  63  20  72  65  74  66  61  20    00ECC
65  6C  69  66  20  4C  44  46  20  65  68  74  20  67    00EDA
6E  69  61  74  62  6F  20  6F  74  09  70  6C  65  48    00EE8 C.ADU:  .ASCII  \Help\<9>\to obtain information about the\-
61  20  6E  6F  69  74  61  6D  72  6F  66  6E  69  20    00EF6                 \ FDL Editor\<0>
45  20  4C  44  46  20  65  68  74  20  74  75  6F  62    00F04
                                00  72  6F  74  69  64    00F12
74  69  6E  69  20  6F  74  09  65  6B  6F  76  6E  49    00F18 C.ADV:  .ASCII  \Invoke\<9>\to initiate a script of relat\-
20  74  70  69  72  63  73  20  61  20  65  74  61  69    00F26                 \ed questions\
65  75  71  20  64  65  74  61  6C  65  72  20  66  6F    00F34
                                73  6E  6F  69  74  73    00F42
6E  61  68  63  20  6F  74  09  79  66  69  64  6F  4D    00F48 C.ADW:  .ASCII  \Modify\<9>\to change existing line(s) in\-
69  6C  20  67  6E  69  74  73  69  78  65  20  65  67    00F56                 \ the FDL definition\<0>
46  20  65  68  74  20  6E  69  20  29  73  28  65  6E    00F64
00  6E  6F  69  74  69  6E  69  66  65  64  20  4C  44    00F72
20  74  72  6F  62  61  20  6F  74  09  74  69  75  51    00F80 C.ADX:  .ASCII  \Quit\<9>\to abort the FDL Editor with no\-
72  6F  74  69  64  45  20  4C  44  46  20  65  68  74    00F8E                 \ FDL file creation\<0><0>
66  20  4C  44  46  20  6F  6E  20  68  74  69  77  20    00F9C
00  00  6E  6F  69  74  61  65  72  63  20  65  6C  69    00FAA
79  66  69  63  65  70  73  20  6F  74  09  74  65  53    00FB8 C.ADY:  .ASCII  \Set\<9>\to specify FDL Editor characteri\-
68  63  20  72  6F  74  69  64  45  20  4C  44  46  20    00FC6                 \stics\<0><0><0>
```

```
00  73  63  69  74  73  69  72  65  74  63  61  72  61     00FD4
                                                00  00     00FE2
61  6C  70  73  69  64  20  6F  74  09  77  65  69  56     00FE4 C.ADZ:  .ASCII  \View\<9>\to display the current FDL Defi\-
20  74  6E  65  72  72  75  63  20  65  68  74  20  79     00FF2                 \nition\<0><0>
6E  6F  69  74  69  6E  69  66  65  44  20  4C  44  46     01000
                                                00  00     0100E
78  45  20  65  74  65  6C  65  44  20  64  64  41  28     01010 C.AEA:  .ASCII  \(Add Delete Exit Help Invoke Modify Quit\-
65  6B  6F  76  6E  49  20  70  6C  65  48  20  74  69     0101E                 \ Set View)\<0><0>
53  20  74  69  75  51  20  79  66  69  64  6F  4D  20     0102C
                00  00  29  77  65  69  56  20  74  65     0103A
75  46  20  72  6F  74  69  64  45  20  6E  69  61  4D     01044 C.AEB:  .ASCII  \Main Editor Function\<9><9>\(Keyword)[He\-
6F  77  79  65  4B  28  09  09  6E  6F  69  74  63  6E     01052                 \lp]\<9>\: \
        20  3A  09  5D  70  6C  65  48  5B  29  64  72     01060
6E  61  4D  20  63  69  74  61  6D  6F  74  75  41  28     0106C C.AEC:  .ASCII  \(Automatic Manual)\<0><0>
                                00  00  29  6C  61  75     0107A
6E  6F  70  73  65  72  20  74  6C  75  61  66  65  44     01080 C.AED:  .ASCII  \Default responses in scripts\<9>\(Keywor\-
73  74  70  69  72  63  73  20  6E  69  20  73  65  73     0108E                 \d)[Auto]\<9>\: \<0>
74  75  41  5B  29  64  72  6F  77  79  65  4B  28  09     0109C
                                00  20  3A  09  5D  6F     010AA
        29  6C  6C  75  46  20  66  65  69  72  42  28     010B0 C.AEE:  .ASCII  \(Brief Full)\
65  76  65  6C  20  67  6E  69  74  70  6D  6F  72  50     010BC C.AEF:  .ASCII  \Prompting level for menus\<9>\(Keyword)[\-
4B  28  09  73  75  6E  65  6D  20  72  6F  66  20  6C     010CA                 \Full]\<9>\: \
09  5D  6C  6C  75  46  5B  29  64  72  6F  77  79  65     010DB
                                                20  3A     010E6
                                        00  79  65  4B     010E8 C.AEG:  .ASCII  \Key\<0>
        00  09  09  6E  6F  69  74  69  73  6F  50  20     010EC C.AEH:  .ASCII  \ Position\<9><9><0>
                                        00  47  45  53     010F8 C.AEI:  .ASCII  \SEG\<0>
                                        2D  30  28  09     010FC C.AEJ:  .ASCII  <9>\(0-\
                        00  20  3A  09  5D  30  5B  29     01100 C.AEK:  .ASCII  \)[0]\<9>\: \<0>
63  65  52  20  64  65  64  64  41  20  6C  6C  69  57     01108 C.AEL:  .ASCII  \Will Added Records be Distributed Evenly\-
69  72  74  73  69  44  20  65  62  20  73  64  72  6F     01116                 \ over the\<0><0><0>
6F  20  79  6C  6E  65  76  45  20  64  65  74  75  62     01124
                00  00  00  65  68  74  20  72  65  76     01132
                        00  6C  61  69  74  69  6E  49     0113C C.AEM:  .ASCII  \Initial\<0>
                        64  65  64  61  6F  6C  65  52     01144 C.AEN:  .ASCII  \Reloaded\
20  69  72  50  20  66  6F  20  65  67  6E  61  52  20     0114C C.AEO:  .ASCII  \ Range of Pri Key Values\
                73  65  75  6C  61  56  20  79  65  4B     0115A
3A  09  5D  6F  4E  5B  29  6F  4E  2F  73  65  59  28     01164 C.AEP:  .ASCII  \(Yes/No)[No]\<9>\: \<0>
                                                00  20     01172
                                        00  79  65  4B     01174 C.AEQ:  .ASCII  \Key\<0>
77  6F  6C  6C  61  20  73  65  67  6E  61  68  43  20     01178 C.AER:  .ASCII  \ Changes allowed\<9><9>\(Yes/No)[Yes]\-
59  5B  29  6F  4E  2F  73  65  59  28  09  09  64  65     01186                 <9>\: \<0><0>
                        00  00  20  3A  09  5D  77  65     01194
                                        00  79  65  4B     0119C C.AES:  .ASCII  \Key\<0>
6C  61  20  73  65  74  61  63  69  6C  70  75  44  20     011A0 C.AET:  .ASCII  \ Duplicates allowed\<9>\(Yes/No)[\<0>-
29  6F  4E  2F  73  65  59  28  09  64  65  77  6F  6C     011AE                 <0><0>
                                        00  00  00  5B     011BC
                        00  00  20  3A  09  5D  6F  4E     011C0 C.AEU:  .ASCII  \No]\<9>\: \<0><0>
                        00  20  3A  09  5D  73  65  59     011C8 C.AEV:  .ASCII  \Yes]\<9>\: \<0>
                                        00  79  65  4B     011D0 C.AEW:  .ASCII  \Key\<0>
20  6E  6F  69  74  61  74  6E  65  6D  67  65  53  20     011D4 C.AEX:  .ASCII  \ Segmentation desired\<9>\(Yes/No)[No]\-
4E  2F  73  65  59  28  09  64  65  72  69  73  65  64     011E2                 <9>\: \<0><0><0>
        00  00  00  20  3A  09  5D  6F  4E  5B  29  6F     011F0
73  72  65  66  66  75  42  20  6C  61  62  6F  6C  47     011FC C.AEY:  .ASCII  \Global Buffers desired\<9><9>\(Yes/No)[N\-
73  65  59  28  09  09  64  65  72  69  73  65  64  20     0120A                 \o]\<9>\: \<0>
        00  20  3A  09  5D  6F  4E  5B  29  6F  4E  2F     01218
20  79  74  69  63  61  70  61  43  20  65  6C  69  46     01224 C.AEZ:  .ASCII  \File Capacity in Records\<9>\(0-1Giga)\-
```

```
2D   30   28   09   73   64   72   6F   63   65   52   20   6E   69      01232                  <0><0>
                              00   00   29   61   67   69   47   31      01240
                                                  00   5D   2D   5B      01248 C.AFA:  .ASCII  \[-]\<0>
                                                  00   20   3A   09      0124C C.AFB:  .ASCII  <9>\: \<0>
6F   63   65   52   20   66   6F   20   72   65   62   6D   75   4E      01250 C.AFC:  .ASCII  \Number of Records that will be Initially\-
20   6C   6C   69   77   20   74   61   68   74   20   73   64   72      0125E                  \ Loaded\<0>
4C   20   79   6C   6C   61   69   74   69   6E   49   20   65   62      0126C
                                        00   64   65   64   61   6F      0127A
6F   63   65   52   20   66   6F   20   72   65   62   6D   75   4E      01280 C.AFD:  .ASCII  \Number of Records that will be Reloaded\-
20   6C   6C   69   77   20   74   61   68   74   20   73   64   72      0128E                  <0>
          00   64   65   64   61   6F   6C   65   52   20   65   62      0129C
00   65   6C   69   46   20   65   68   74   20   6F   74   6E   69      012A8 C.AFE:  .ASCII  \into the File\<0><0><0>
                                                            00   00      012B6
          29   61   67   69   47   31   2D   30   28   09   09   09      012B8 C.AFF:  .ASCII  <9><9><9>\(0-1Giga)\
                                                  00   5D   2D   5B      012C4 C.AFG:  .ASCII  \[-]\<0>
                                                  00   20   3A   09      012C8 C.AFH:  .ASCII  <9>\: \<0>
                                                  00   20   3A   20      012CC C.AFI:  .ASCII  \ : \<0>
                                                  00   20   3A   09      012D0 C.AFJ:  .ASCII  <9>\: \<0>
20   74   72   65   76   6E   6F   43   5F   74   73   61   46   28      012D4 C.AFK:  .ASCII  \(Fast_Convert NoFast_Convert RMS_Puts)\-
74   72   65   76   6E   6F   43   5F   74   73   61   46   6F   4E      012E2                  <0><0>
          00   00   29   73   74   75   50   5F   53   4D   52   20      012F0
4C   20   65   6C   69   46   20   6C   61   69   74   69   6E   49      012FC C.AFL:  .ASCII  \Initial File Load Method\<9><0><0><0>
00   00   00   09   64   6F   68   74   65   4D   20   64   61   6F      0130A
67   6E   69   64   61   6F   6C   65   52   20   65   6C   69   46      01318 C.AFM:  .ASCII  \File Reloading Method\<9><9><0>
                    00   09   09   64   6F   68   74   65   4D   20      01326
74   73   61   46   5B   29   64   72   6F   77   79   65   4B   28      01330 C.AFN:  .ASCII  \(Keyword)[Fast]\<9>\: \<0><0>
                                        00   00   20   3A   09   5D      0133E
52   20   6C   61   69   74   69   6E   49   20   6C   6C   69   57      01344 C.AFO:  .ASCII  \Will Initial Records Typically be Loaded\-
6C   61   63   69   70   79   54   20   73   64   72   6F   63   65      01352                  \ in Order\<0><0><0>
69   20   64   65   64   61   6F   4C   20   65   62   20   79   6C      01360
                    00   00   00   72   65   64   72   4F   20   6E      0136E
72   6F   63   65   52   20   65   68   74   20   6C   6C   69   57      01378 C.AFP:  .ASCII  \Will the Records be Reloaded Typically i\-
64   65   64   61   6F   6C   65   52   20   65   62   20   73   64      01386                  \n Order\<0>
20   6E   69   20   79   6C   6C   61   63   69   70   79   54   20      01394
                                        00   72   65   64   72   4F      013A2
50   20   67   6E   69   64   6E   65   63   73   41   20   79   62      013A8 C.AFQ:  .ASCII  \by Ascending Primary Key\<9>\(Yes/No)[No\-
65   59   28   09   79   65   4B   20   79   72   61   6D   69   72      013B6                  \]\<9>\: \
          20   3A   09   5D   6F   4E   5B   29   6F   4E   2F   73      013C4
69   64   64   41   20   66   6F   20   72   65   62   6D   75   4E      013D0 C.AFR:  .ASCII  \Number of Additional Records to be Added\-
73   64   72   6F   63   65   52   20   6C   61   6E   6F   69   74      013DE                  \ After\<0><0>
41   20   64   65   64   64   41   20   65   62   20   6F   74   20      013EC
                                        00   00   72   65   74   66      013FA
69   46   20   6C   61   69   74   69   6E   49   20   65   68   74      01400 C.AFS:  .ASCII  \the Initial File Load\<0><0><0>
                    00   00   00   64   61   6F   4C   20   65   6C      0140E
20   67   6E   69   64   61   6F   6C   65   52   20   65   68   74      01418 C.AFT:  .ASCII  \the Reloading the File\<0><0>
                    00   00   65   6C   69   46   20   65   68   74      01426
5D   30   5B   29   61   67   69   47   31   2D   30   28   09   09      01430 C.AFU:  .ASCII  <9><9>\(0-1Giga)[0]\<9>\: \<0><0><0>
                                        00   00   00   20   3A   09      0143E
72   70   6D   6F   43   20   79   65   4B   20   61   74   61   44      01444 C.AFV:  .ASCII  \Data Key Compression desired\<9>\(Yes/No\-
64   65   72   69   73   65   64   20   6E   6F   69   73   73   65      01452                  \)[Yes]\<9>\: \<0><0><0>
5D   73   65   59   5B   29   6F   4E   2F   73   65   59   28   09      01460
                                        00   00   00   20   3A   09      0146E
6F   43   20   64   72   6F   63   65   52   20   61   74   61   44      01474 C.AFW:  .ASCII  \Data Record Compression desired\<9>\(Yes\-
69   73   65   64   20   6E   6F   69   73   73   65   72   70   6D      01482                  \/No)[Yes]\<9>\: \
59   5B   29   6F   4E   2F   73   65   59   28   09   64   65   72      01490
                                        20   3A   09   5D   73   65      0149E
73   73   65   72   70   6D   6F   43   20   78   65   64   6E   49      014A4 C.AFX:  .ASCII  \Index Compression desired\<9>\(Yes/No)[Y\-
```

```
59  28  09  64  65  72  69  73  65  64  20  6E  6F  69      014B2                   \es]\<9>\: \<0><0>
20  3A  09  5D  73  65  59  5B  29  6F  4E  2F  73  65      014C0
                                                00  00      014CE
6F  76  20  6B  73  69  64  20  74  65  67  72  61  54      014D0 C.AFY:   .ASCII  \Target disk volume Cluster Size\<9>\(1-1\-
53  20  72  65  74  73  75  6C  43  20  65  6D  75  6C      014DE                   \Giga)[3]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  31  28  09  65  7A  69      014EC
                                00  20  3A  09  5D  33      014FA
70  73  20  6E  61  63  20  73  64  72  6F  63  65  52      01500 C.AFZ:   .ASCII  \Records can span disk blocks\<9>\(Yes/No\-
73  6B  63  6F  6C  62  20  6B  73  69  64  20  6E  61      0150E                   \)[Yes]\<9>\: \<0><0><0>
5D  73  65  59  5B  29  6F  4E  2F  73  65  59  28  09      0151C
                                00  00  00  20  3A  09      0152A
61  6E  6F  69  74  69  64  64  41  20  6C  6C  69  57      01530 C.AGA:   .ASCII  \Will Additional Records Typically be Add\-
69  70  79  54  20  73  64  72  6F  63  65  52  20  6C      0153E                   \ed in\<0><0><0>
64  65  64  64  41  20  65  62  20  79  6C  6C  61  63      0154C
                                00  00  00  6E  69  20      0155A
6E  65  63  73  41  20  79  62  20  72  65  64  72  4F      01560 C.AGB:   .ASCII  \Order by Ascending Primary Key\<9>\(Yes/\-
4B  20  79  72  61  6D  69  72  50  20  67  6E  69  64      0156E                   \No)[No]\<9>\: \<0><0>
6F  4E  5B  29  6F  4E  2F  73  65  59  28  09  79  65      0157C
                                00  00  20  3A  09  5D      0158A
65  56  20  67  6F  6C  6F  72  50  20  65  6C  69  46      01590 C.AGC:   .ASCII  \File Prolog Version\<9><9>\(0-3)[3]\-
33  5B  29  33  2D  30  28  09  09  6E  6F  69  73  72      0159E                   <9>\: \
                                        20  3A  09  5D      015AC
                                        00  79  65  4B      015B0 C.AGD:   .ASCII  \Key\<0>
        00  00  00  09  09  68  74  67  6E  65  4C  20      015B4 C.AGE:   .ASCII  \ Length\<9><9><0><0><0>
                                        00  47  45  53      015C0 C.AGF:   .ASCII  \SEG\<0>
                                        00  00  28  09      015C4 C.AGG:   .ASCII  <9>\(\<0><0>
                                        00  5D  2D  5B      015C8 C.AGH:   .ASCII  \[-]\<0>
                                        00  20  3A  09      015CC C.AGI:   .ASCII  <9>\: \<0>
20  64  65  73  55  20  73  69  73  61  68  70  6D  45      015D0 C.AGJ:   .ASCII  \Emphasis Used In Defining Default:\<9>\(\-
65  44  20  67  6E  69  6E  69  66  65  44  20  6E  49      015DE                   \ \<0><0><0>
        00  00  00  20  28  09  3A  74  6C  75  61  66      015EC
66  75  62  5F  72  65  6C  6C  61  6D  53  20  20  20      015F8 C.AGK:   .ASCII  \   Smaller_buffers )\
                                29  20  73  72  65  66      01606
6C  69  66  5F  72  65  74  74  61  6C  46  20  20  20      0160C C.AGL:   .ASCII  \   Flatter_files   )\
                                29  20  20  20  73  65      0161A
6B  63  75  42  20  64  65  74  73  65  67  67  75  53      01620 C.AGM:   .ASCII  \Suggested Bucket Sizes:\<9><9><9>\( \
20  28  09  09  09  3A  73  65  7A  69  53  20  74  65      0162E
                                        00  00  29  20      0163C C.AGN:   .ASCII  \ )\<0><0>
65  76  65  4C  20  66  6F  20  72  65  62  6D  75  4E      01640 C.AGO:   .ASCII  \Number of Levels in Index:\<9><9>\( \
09  09  3A  78  65  64  6E  49  20  6E  69  20  73  6C      0164E
                                                20  28      0165C
                                                29  20      0165E C.AGP:   .ASCII  \ )\
6B  63  75  42  20  66  6F  20  72  65  62  6D  75  4E      01660 C.AGQ:   .ASCII  \Number of Buckets in Index:\<9><9>\( \<0>
09  3A  78  65  64  6E  49  20  6E  69  20  73  74  65      0166E
                                        00  20  28  09      0167C
                                        00  00  29  20      01680 C.AGR:   .ASCII  \ )\<0><0>
64  65  72  69  75  71  65  52  20  73  65  67  61  50      01684 C.AGS:   .ASCII  \Pages Required to Cache Index:\<9><9>\( \
65  64  6E  49  20  65  68  63  61  43  20  6F  74  20      01692
                                20  28  09  09  3A  78      016A0
                                                29  20      016A6 C.AGT:   .ASCII  \ )\
65  73  55  20  67  6E  69  73  73  65  63  6F  72  50      016A8 C.AGU:   .ASCII  \Processing Used to Search Index:\<9>\( \-
6E  49  20  68  63  72  61  65  53  20  6F  74  20  64      016B6                   <0>
                        00  20  28  09  3A  78  65  64      016C4
                                        00  00  29  20      016CC C.AGV:   .ASCII  \ )\<0><0>
                                        00  79  65  4B      016D0 C.AGW:   .ASCII  \Key\<0>
09  09  65  7A  69  53  20  74  65  6B  63  75  42  20      016D4 C.AGX:   .ASCII  \ Bucket Size\<9><9>\(\<0>
                                                00  28      016E2
                        00  00  00  5B  29  33  36  2D    016E4 C.AGY:  .ASCII  \-63)[\<0><0><0>
                                        20  3A  09  5D    016EC C.AGZ:  .ASCII  \]\<9>\: \
65  66  66  75  42  5F  72  65  6C  6C  61  6D  53  28    016F0 C.AHA:  .ASCII  \(Smaller_Buffers Flatter_Files)\<0>
6C  69  46  5F  72  65  74  74  61  6C  46  20  73  72    016FE
                                        00  29  73  65    0170C
44  20  72  6F  66  20  73  69  73  61  68  70  6D  45    01710 C.AHB:  .ASCII  \Emphasis for Default Bucket_Size(Keyword\-
5F  74  65  6B  63  75  42  20  74  6C  75  61  66  65    0171E                 \)[\<0><0>
5B  29  64  72  6F  77  79  65  4B  28  65  7A  69  53    0172C
                                                00  00    0173A
                        20  3A  09  5D  74  61  6C  46    0173C C.AHC:  .ASCII  \Flat]\<9>\: \
        00  00  00  20  3A  20  5D  6C  6C  61  6D  53    01744 C.AHD:  .ASCII  \Small] : \<0><0><0>
                                        00  79  65  4B    01750 C.AHE:  .ASCII  \Key\<0>
72  65  50  20  6C  6C  69  46  20  64  61  6F  4C  20    01754 C.AHF:  .ASCII  \ Load Fill Percent\<9>\(50-100)[100]\-
5B  29  30  30  31  2D  30  35  28  09  74  6E  65  63    01762                 <9>\: \<0>
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65  20  73  69  68  74  20  65  63  61  6C  70  65  52    01778 C.AHG:  .ASCII  \Replace this existing secondary\<9>\(Yes\-
64  6E  6F  63  65  73  20  67  6E  69  74  73  69  78    01786                 \/No)[No]\<9>\: \<0>
4E  5B  29  6F  4E  2F  73  65  59  28  09  79  72  61    01794
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65  6C  69  66  20  65  6C  69  46  20  61  74  61  44    017A8 C.AHH:  .ASCII  \Data File file-spec\<9><9>\(1-126 chars)\-
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5D  6C  6C  75  6E  5B  29  73  72  61  68  63  20  36    01820
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54  20  4C  44  46  20  72  6F  66  20  74  78  65  54    01830 C.AHN:  .ASCII  \Text for FDL Title Section\<9>\(1-126 ch\-
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                                        5D  6C  6C  75    0185A
                                                20  3A    0185E C.AHO:  .ASCII  \: \
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                                                20  3A    0187E C.AHR:  .ASCII  \: \
6E  69  42  20  34  6E  69  42  20  32  6E  69  42  28    01880 C.AHS:  .ASCII  \(Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal S\-
6E  49  20  34  74  6E  49  20  32  74  6E  49  20  38    0188E                 \tring)\<0><0>
72  74  53  20  6C  61  6D  69  63  65  44  20  38  74    0189C
                                00  00  29  67  6E  69    018AA
                                        00  79  65  4B    018B0 C.AHT:  .ASCII  \Key\<0>
4B  28  09  09  65  70  79  54  20  61  74  61  44  20    018B4 C.AHU:  .ASCII  \ Data Type\<9><9>\(Keyword)[Str]\<9>\: \-
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6E  65  72  65  66  65  52  20  66  6F  20  79  65  4B    018D4 C.AHV:  .ASCII  \Key of Reference\<9><9>\(\<0>
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                        00  20  3A  09  5D  30  5B  29    018E8 C.AHW:  .ASCII  \)[0]\<9>\: \<0>
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2D  31  28  09  65  6E  69  66  65  44  20  6F  74  20    018FE                 <0><0><0>
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                                        20  3A  09  5D    01914 C.AHY:  .ASCII  \]\<9>\: \
75  74  65  52  5F  65  67  61  69  72  72  61  43  28    01918 C.AHZ:  .ASCII  \(Carriage_Return FORTRAN None Print)\
6E  6F  4E  20  4E  41  52  54  52  4F  46  20  6E  72      01926
                        29  74  6E  69  72  50  20  65      01934
72  74  6E  6F  43  20  65  67  61  69  72  72  61  43      0193C C.AIA:  .ASCII  \Carriage Control\<9><9>\(Keyword)[Carr]\-
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6C  62  61  69  72  61  56  20  64  65  78  69  46  28      01960 C.AIB:  .ASCII  \(Fixed Variable)\
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6C  62  61  69  72  61  56  20  64  65  78  69  46  28      01970 C.AIC:  .ASCII  \(Fixed Variable VFC)\
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20  6D  61  65  72  74  53  20  64  65  78  69  46  28      01984 C.AID:  .ASCII  \(Fixed Stream _CR _LF Undefined Variable\-
69  66  65  64  6E  55  20  46  4C  5F  20  52  43  5F      01992                 \ VFC)\<0><0><05
56  20  65  6C  62  61  69  72  61  56  20  64  65  6E      019A0
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09  74  61  6D  72  6F  46  20  64  72  6F  63  65  52      019B4 C.AIE:  .ASCII  \Record Format\<9><9><9>\(Keyword)[Var]\-
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20  64  6C  65  69  46  20  6C  6F  72  74  6E  6F  43      019D8 C.AIF:  .ASCII  \Control Field Size\<9><9>\(1-\<0>
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65  53  20  65  70  79  54  20  68  70  61  72  47  20      01A2C C.AIP:  .ASCII  \ Graph Type Selection \<0><0>
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69  53  20  74  65  6B  63  75  42  09  65  6E  69  4C      01A44 C.AIQ:  .ASCII  \Line\<9>\Bucket Size vs Index Depth\-
65  44  20  78  65  64  6E  49  20  73  76  20  65  7A      01A52                 <9>\as a 2 dimensional plot\<0>
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69  53  20  74  65  6B  63  75  42  09  6C  6C  69  46      01A7C C.AIR:  .ASCII  \Fill\<9>\Bucket Size vs     Load Fill Pe\-
64  61  6F  4C  20  20  20  20  20  73  76  20  65  7A      01A8A                 \rcent      vs Index Depth\
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44  20  78  65  64  6E  49  20  73  76  20  20  20  20      01AA6
                                        68  74  70  65      01AB4
7A  69  53  20  74  65  6B  63  75  42  09  79  65  4B      01AB8 C.AIS:  .ASCII  \Key\<9>\Bucket Size vs          Key Lengt\-
4B  20  20  20  20  20  20  20  20  20  73  76  20  65      01AC6                 \h          vs Index Depth\<0>
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65  44  20  78  65  64  6E  49  20  73  76  20  20  20      01AE2
                                        00  68  74  70      01AF0
20  74  65  6B  63  75  42  09  64  72  6F  63  65  52      01AF4 C.AIT:  .ASCII  \Record\<9>\Bucket Size vs          Record \-
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78  65  64  6E  49  20  73  76  20  20  20  20  20  20      01B1E
                        00  00  68  74  70  65  44  20      01B2C
69  53  20  74  65  6B  63  75  42  09  74  69  6E  49      01B34 C.AIU:  .ASCII  \Init\<9>\Bucket Size vs Initial Load Rec\-
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6F  43  20  64  72  6F  63  65  52  20  64  61  6F  4C      01B50
44  20  78  65  64  6E  49  20  73  76  20  74  6E  75      01B5E
                                        68  74  70  65      01B6C
7A  69  53  20  74  65  6B  63  75  42  09  64  64  41      01B70 C.AIV:  .ASCII  \Add\<9>\Bucket Size vs  Additional Recor\-
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6E  75  6F  43  20  64  72  6F  63  65  52  20  6C  61      01B8C
65  44  20  78  65  64  6E  49  20  73  76  20  20  74      01B9A
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  79  65  4B  20  6C  6C  69  46  20  65  6E  69  4C  28      01BAC C.AIW:  .ASCII  \(Line Fill Key\<0><0>
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  41  20  74  69  6E  49  20  64  72  6F  63  65  52  20      01BBC C.AIX:  .ASCII  \ Record Init Add)\<0><0><0>
                                  00  00  00  29  64  64      01BCA
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  77  79  65  4B  28  09  09  79  61  6C  70  73  69  64      01BDE                 <0><0><0>
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  20  6E  6F  69  74  63  65  6C  65  53  20  79  74  69      01C36
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                                              00  20  0F      01E0E         .ASCII  <15>\ \<0>
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   0F 78 0E 20 78 65 64 6E 49 20 6E 20 79 65   01F10
         79 65 4B 20 0F 78 0E 20 33 20 20 20   01F1E
                              00 20 0F 78 0E   01F2A              .ASCII  <14>\x\<15>\ \<0>
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   0F 6A 71 71 71 71 71 71 71 71 71 71 71 71   01F54                      \qqqqqqqqqj\<15>\       \<14>\mqqqqqqqqqqqq\
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   0E 20 20 20 20 20 0F 6A 71 71 71 71 71 71   01F70
         71 71 71 71 71 71 71 71 71 71 71 6D   01F7E
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   2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2B 20 20 20   01FDC  C.AJR:      .ASCII  \    +-------------+     +-------------+  \-
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   20 20 20 20 20 20 20 20 20 20 7C 20 20 20   0207C  C.AJT:      .ASCII  \    |_____________|     +-------------+  \-
   2D 2D 2D 2D 2B 20 20 20 20 20 7C 20 20 20   0208A                      \    +-------------+     +-------------+\-
   20 20 20 20 2B 2D 2D 2D 2D 2D 2D 2D 2D 2D   02098                      <0><0>
   2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2B 20   020A6
   2D 2D 2D 2D 2D 2D 2B 20 20 20 20 20 2B 2D   020B4
               00 00 2B 2D 2D 2D 2D 2D 2D 2D   020C2
   64 6E 49 20 30 20 79 65 4B 20 7C 20 20 20   020CC  C.AJU:      .ASCII  \   | Key 0 Index |   1 | Key 0 Index |  \-
   79 65 4B 20 7C 20 31 20 20 20 7C 20 78 65   020DA                      \ 1 | Key 0 Index |   1 | Key 0 Index |\-
   31 20 20 20 7C 20 78 65 64 6E 49 20 30 20   020E8                      <0><0>
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   30 20 79 65 4B 20 7C 20 31 20 20 20 7C 20   02104
               00 00 7C 20 78 65 64 6E 49 20   02112
   20 20 20 20 20 20 20 20 20 20 7C 20 20 20   0211C  C.AJV:      .ASCII  \    |_____________|     |_____________|  \-
   20 20 20 20 7C 20 20 20 20 20 7C 20 20 20   0212A                      \    +-------------+     +-------------+\-
   20 20 20 20 7C 20 20 20 20 20 20 20 20 20   02138                      <0><0>
   2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2B 20   02146
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74  61  44  20  6E  20  79  65  4B  20  7C  20  20  20        0216C C.AJW:   .ASCII   \   | Key n Data  |     | Key n Data  |  \-
79  65  4B  20  7C  20  20  20  20  20  7C  20  20  61        0217A                   \ 2 | Key n Data  |   2 | Key n Data  |\-
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20  20  20  20  7C  20  20  20  20  20  7C  20  20  20        021CA                   \   |             |     +-------------+\-
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2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  7C  20        021F4
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79  65  4B  20  7C  20  20  20  20  20  7C  20  78  65        0221A                   \   | Key n Index |   3 | Key n Index |\-
20  20  20  20  7C  20  78  65  64  6E  49  20  6E  20        02228                   <0><0>
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6E  20  79  65  4B  20  7C  20  33  20  20  20  7C  20        02244
                00  00  7C  20  78  65  64  6E  49  20        02252
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20  20  20        0225C C.AJZ:   .ASCII   \   +-------------+     +-------------+  \-
2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D  2D  2D        0226A                   \   +-------------+     +-------------+\-
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29  31  28  20  65  6E  4F  20  20  20  20  20  20  20        022AC C.AKA:   .ASCII   \       One (1)             Two (2)      \-
54  20  20  20  20  20  20  20  20  20  20  20  20  20        022BA                   \      Three (3)            Four (4)\<0>
20  20  20  20  20  20  20  20  29  32  28  20  6F  77        022C8
20  29  33  28  20  65  65  72  68  54  20  20  20  20        022D6
75  6F  46  20  20  20  20  20  20  20  20  20  20  20        022E4
                                00  29  34  28  20  72        022F2
65  65  72  68  54  20  6F  77  54  20  65  6E  4F  28        022F8 C.AKB:   .ASCII   \(One Two Three Four Double)\<0>
00  29  65  6C  62  75  6F  44  20  72  75  6F  46  20        02306
22  65  6C  62  75  6F  44  22  20  65  70  79  54  28        02314 C.AKC:   .ASCII   \(Type "Double" to allocate 2 areas per k\-
32  20  65  74  61  63  6F  6C  6C  61  20  6F  74  20        02322                   \ey)\<0>
79  65  68  20  72  65  70  20  73  61  65  72  61  20        02330
                                                00  29        0233E
61  65  72  61  20  66  6F  20  72  65  62  6D  75  4E        02340 C.AKD:   .ASCII   \Number of areas to allocate\<9>\(keyword\-
09  65  74  61  63  6F  6C  6C  61  20  6F  74  20  73        0234E                   \)[Three] : \<0>
65  72  68  54  5B  29  64  72  6F  77  79  65  6B  28        0235C
                                00  20  3A  20  5D  65        0236A
                                        00  00  09  09        02370 C.AKE:   .ASCII   <9><9><0><0>
45  53  20  72  6F  74  69  64  45  20  4C  44  46  20        02374 C.AKF:   .ASCII   \ FDL Editor SET Function \<0><0><0>
00  00  00  20  6E  6F  69  74  63  6E  75  46  20  54        02382
73  65  6C  69  66  09  73  69  73  79  6C  61  6E  41        02390 C.AKG:   .ASCII   \Analysis\<9>\filespec of FDL Analysis fi\-
61  6E  41  20  4C  44  46  20  66  6F  20  63  65  70        0239E                   \le\<0><0>
        00  00  65  6C  69  66  20  73  69  73  79  6C        023AC
20  65  70  79  74  09  09  79  61  6C  70  73  69  44        023B8 C.AKH:   .ASCII   \Display\<9><9>\type of graph to display\-
69  64  20  6F  74  20  68  70  61  72  67  20  66  6F        023C6                   <0><0><0>
                        00  00  00  79  61  6C  70  73        023D4
65  64  20  66  6F  09  73  69  73  61  68  70  6D  45        023DC C.AKI:   .ASCII   \Emphasis\<9>\of default bucketsize calcu\-
69  73  74  65  6B  63  75  62  20  74  6C  75  61  66        023EA                   \lations\<0>
6E  6F  69  74  61  6C  75  63  6C  61  63  20  65  7A        023F8
                                                00  73        02406
75  6E  09  79  74  69  72  61  6C  75  6E  61  72  47        02408 C.AKJ:   .ASCII   \Granularity\<9>\number of areas in Index\-
20  73  61  65  72  61  20  66  6F  20  72  65  62  6D        02416                   \ed files\
6C  69  66  20  64  65  78  65  64  6E  49  20  6E  69      02424
                                                73  65      02432
75  6E  09  73  79  65  4B  5F  72  65  62  6D  75  4E      02434 C.AKK:   .ASCII   \Number_Keys\<9>\number of keys in Indexe\-
69  20  73  79  65  6B  20  66  6F  20  72  65  62  6D      02442                   \d files\<0>
65  6C  69  66  20  64  65  78  65  64  6E  49  20  6E      02450
                                                00  73      0245E
70  73  65  6C  69  66  09  09  74  75  70  74  75  4F      02460 C.AKL:   .ASCII   \Output\<9><9>\filespec of FDL Output fil\-
70  74  75  4F  20  4C  44  46  20  66  6F  20  63  65      0246E                   \e\<0>
                        00  65  6C  69  66  20  74  75      0247C
6C  6C  75  46  09  67  6E  69  74  70  6D  6F  72  50      02484 C.AKM:   .ASCII   \Prompting\<9>\Full or Brief prompting of\-
6D  6F  72  70  20  66  65  69  72  42  20  72  6F  20      02492                   \ menus\<0><0>
73  75  6E  65  6D  20  66  6F  20  67  6E  69  74  70      024A0
                                                00  00      024AE
67  61  73  75  09  73  65  73  6E  6F  70  73  65  52      024B0 C.AKN:   .ASCII   \Responses\<9>\usage of default responses\-
72  20  74  6C  75  61  66  65  64  20  66  6F  20  65      024BE                   \ in scripts\<0>
63  73  20  6E  69  20  73  65  73  6E  6F  70  73  65      024CC
                                00  73  74  70  69  72      024DA
70  73  69  44  20  73  69  73  79  6C  61  6E  41  28      024E0 C.AKO:   .ASCII   \(Analysis Display Emphasis Granularity\-
47  20  73  69  73  61  68  70  6D  45  20  79  61  6C      024EE                   <0><0>
        00  00  79  74  69  72  61  6C  75  6E  61  72      024FC
4F  20  73  79  65  4B  5F  72  65  62  6D  75  4E  20      02508 C.AKP:   .ASCII   \ Number_Keys Output Prompting Responses)\
6E  69  74  70  6D  6F  72  50  20  74  75  70  74  75      02516
        29  73  65  73  6E  6F  70  73  65  52  20  67      02524
74  63  61  72  61  68  63  20  72  6F  74  69  64  45      02530 C.AKQ:   .ASCII   \Editor characteristic to set\<9>\(keywor\-
74  65  73  20  6F  74  20  63  69  74  73  69  72  65      0253E                   \d)\<0><0>
        00  00  29  64  72  6F  77  79  65  6B  28  09      0254C
                                        00  5D  2D  5B      02558 C.AKR:   .ASCII   \[-]\<0>
                                        00  20  3A  09      0255C C.AKS:   .ASCII   <9>\: \<0>
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                00  00  28  09  09  65  7A  69  53  20      0256E
                                        00  5D  2D  5B      02578 C.AKU:   .ASCII   \[-]\<0>
                                        00  00  2C  30      0257C C.AKV:   .ASCII   \0,\<0><0>
                                        5D  30  5B  29      02580 C.AKW:   .ASCII   \)[0]\
                                        00  20  3A  20      02584 C.AKX:   .ASCII   \ : \<0>
                                        00  20  3A  09      02588 C.AKY:   .ASCII   <9>\: \<0>
                                        00  00  09  09      0258C C.AKZ:   .ASCII   <9><9><0><0>
79  72  61  6D  69  72  50  20  6C  61  67  65  4C  20      02590 C.ALA:   .ASCII   \ Legal Primary Attributes \<0><0>
00  00  20  73  65  74  75  62  69  72  74  74  41  20      0259E
75  62  69  72  74  74  61  09  53  53  45  43  43  41      025AC C.ALB:   .ASCII   \ACCESS\<9>\attributes set the run-time a\-
75  72  20  65  68  74  20  74  65  73  20  73  65  74      025BA                   \ccess mode of the file\<0><0>
20  73  73  65  63  63  61  20  65  6D  69  74  2D  6E      025C8
69  66  20  65  68  74  20  66  6F  20  65  64  6F  6D      025D6
                                        00  00  65  6C      025E4
75  62  69  72  74  74  61  09  78  20  41  45  52  41      025E8 C.ALC:   .ASCII   \AREA x\<9>\attributes define the charact\-
65  68  74  20  65  6E  69  66  65  64  20  73  65  74      025F6                   \eristics of file area x\<0>
69  74  73  69  72  65  74  63  61  72  61  68  63  20      02604
65  72  61  20  65  6C  69  66  20  66  6F  20  73  63      02612
                                        00  78  20  61      02620
62  69  72  74  74  61  09  54  43  45  4E  4E  4F  43      02624 C.ALD:   .ASCII   \CONNECT\<9>\attributes set various RMS r\-
6F  69  72  61  76  20  74  65  73  20  73  65  74  75      02632                   \un-time options\<0>
6D  69  74  2D  6E  75  72  20  53  4D  52  20  73  75      02640
                00  73  6E  6F  69  74  70  6F  20  65      0264E
65  74  75  62  69  72  74  74  61  09  45  54  41  44      02658 C.ALE:   .ASCII   \DATE\<9>\attributes set the date paramet\-
65  74  61  64  20  65  68  74  20  74  65  73  20  73      02666                   \ers of the file\<0>
66  6F  20  73  72  65  74  65  6D  61  72  61  70  20      02674
                00  65  6C  69  66  20  65  68  74  20      02682
65  74  75  62  69  72  74  74  61  09  45  4C  49  46      0268C C.ALF:   .ASCII   \FILE\<9>\attributes affect the entire RM\-
```

```
  65  20  65  68  74  20  74  63  65  66  66  61  20  73        0269A                  \S data file\<0>
  61  74  61  64  20  53  4D  52  20  65  72  69  74  6E        026A8
                                  00  65  6C  69  66  20        026B6
  62  69  72  74  74  61  09  4C  41  4E  52  55  4F  4A        026BC C.ALG:   .ASCII  \JOURNAL\<9>\attributes set the journalin\-
  6A  20  65  68  74  20  74  65  73  20  73  65  74  75        026CA                  \g parameters of the file\
  61  72  61  70  20  67  6E  69  6C  61  6E  72  75  6F        026D8
  20  65  68  74  20  66  6F  20  73  72  65  74  65  6D        026E6
                                          65  6C  69  66        026F4
  74  75  62  69  72  74  74  61  09  79  20  59  45  4B        026F8 C.ALH:   .ASCII  \KEY y\<9>\attributes define the characte\-
  20  65  68  74  20  65  6E  69  66  65  64  20  73  65        02706                  \ristics of key y\
  63  69  74  73  69  72  65  74  63  61  72  61  68  63        02714
                  79  20  79  65  6B  20  66  6F  20  73        02722
  75  62  69  72  74  74  61  09  44  52  4F  43  45  52        0272C C.ALI:   .ASCII  \RECORD\<9>\attributes set the non-key as\-
  6F  6E  20  65  68  74  20  74  65  73  20  73  65  74        0273A                  \pects of each record\
  20  73  74  63  65  70  73  61  20  79  65  6B  2D  6E        02748
  64  72  6F  63  65  72  20  68  63  61  65  20  66  6F        02756
  62  69  72  74  74  61  09  47  4E  49  52  41  48  53        02764 C.ALJ:   .ASCII  \SHARING\<9>\attributes set the run-time \-
  72  20  65  68  74  20  74  65  73  20  73  65  74  75        02772                  \sharing mode of the file\
  6E  69  72  61  68  73  20  65  6D  69  74  2D  6E  75        02780
  20  65  68  74  20  66  6F  20  65  64  6F  6D  20  67        0278E
                                          65  6C  69  66        0279C
  75  62  69  72  74  74  61  09  4D  45  54  53  59  53        027A0 C.ALK:   .ASCII  \SYSTEM\<9>\attributes document operating\-
  6F  20  74  6E  65  6D  75  63  6F  64  20  73  65  74        027AE                  \ system-specific items\<0><0>
  65  74  73  79  73  20  67  6E  69  74  61  72  65  70        027BC
  65  74  69  20  63  69  66  69  63  65  70  73  2D  6D        027CA
                                          00  00  73  6D        027D8
  68  20  65  68  74  20  73  69  09  45  4C  54  49  54        027DC C.ALL:   .ASCII  \TITLE\<9>\is the header line for the FDL\-
  72  6F  66  20  65  6E  69  6C  20  72  65  64  61  65        027EA                  \ file\<0><0><0>
  00  65  6C  69  66  20  4C  44  46  20  65  68  74  20        027F8
                                                  00  00        02806
  43  20  41  45  52  41  20  53  53  45  43  43  41  28        02808 C.ALM:   .ASCII  \(ACCESS AREA CONNECT DATE FILE JOURNAL\-
  49  46  20  45  54  41  44  20  54  43  45  4E  4E  4F        02816                  <0><0>
          00  00  4C  41  4E  52  55  4F  4A  20  45  4C        02824
  48  53  20  44  52  4F  43  45  52  20  59  45  4B  20        02830 C.ALN:   .ASCII  \ KEY RECORD SHARING SYSTEM TITLE)\<0>
  54  20  4D  45  54  53  59  53  20  47  4E  49  52  41        0283E
                                  00  29  45  4C  54  49        0284C
                                                  09  09        02852 C.ALO:   .ASCII  <9><9>
  61  6D  69  72  50  20  74  6E  65  72  72  75  43  20        02854 C.ALP:   .ASCII  \ Current Primary Attributes \
  20  73  65  74  75  62  69  72  74  74  41  20  79  72        02862
  20  72  6F  66  20  22  3F  22  20  65  70  79  54  28        02870 C.ALQ:   .ASCII  \(Type "?" for a list of existing Primary\-
  73  69  78  65  20  66  6F  20  74  73  69  6C  20  61        0287E                  \ Attributes)\
  41  20  79  72  61  6D  69  72  50  20  67  6E  69  74        0288C
                  29  73  65  74  75  62  69  72  74  74        0289A
  20  64  65  72  69  73  65  44  20  72  65  74  6E  45        028A4 C.ALR:   .ASCII  \Enter Desired Primary\<9><9>\(Keyword)[\-
  77  79  65  4B  28  09  09  79  72  61  6D  69  72  50        028B2                  <0><0><0>
                          00  00  00  5B  29  64  72  6F        028C0
    0000006B   00000064   00000055   00000010   00000048        028C8 C.ALS:   .LONG   72,16,85,100,107,111,128,144,149,157,162,-
    0000009D   00000095   00000090   00000080   0000006F        028DC                  168,174,182,186,194,202,209
    000000BA   000000B6   000000AE   000000A8   000000A2        028F0
                          000000D1   000000CA   000000C2        02904
      45  50  59  54  5F  59  52  41  4D  49  52  50  0C        02910          .ASCII  <12>\PRIMARY_TYPE\
  59  52  41  4D  49  52  50  5F  59  4D  4D  55  44  0E        0291D          .ASCII  <14>\DUMMY_PRIMARY$\
                                                      24        0292B
                              53  53  45  43  43  41  06        0292C          .ASCII  <6>\ACCESS\
                                          4C  43  41  03        02933          .ASCII  <3>\ACL\
  41  5F  46  4F  5F  53  49  53  59  4C  41  4E  41  10        02937          .ASCII  <16>\ANALYSIS_OF_AREA\
                                              41  45  52        02945
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4B  5F  46  4F  5F  53  49  53  59  4C  41  4E  41  0F      02948           .ASCII  <15>\ANALYSIS_OF_KEY\
                                                59  45      02956
                                        41  45  52  41  04      02958           .ASCII  <4>\AREA\
                        54  43  45  4E  4E  4F  43  07      0295D           .ASCII  <7>\CONNECT\
                                    45  54  41  44  04      02965           .ASCII  <4>\DATE\
                                24  45  4C  49  46  05      0296A           .ASCII  <5>\FILE$\
                                54  4E  45  44  49  05      02970           .ASCII  <5>\IDENT\
                        4C  41  4E  52  55  4F  4A  07      02976           .ASCII  <7>\JOURNAL\
                                        59  45  4B  03      0297E           .ASCII  <3>\KEY\
                        24  44  52  4F  43  45  52  07      02982           .ASCII  <7>\RECORD$\
                        47  4E  49  52  41  48  53  07      0298A           .ASCII  <7>\SHARING\
                            4D  45  54  53  59  53  06      02992           .ASCII  <6>\SYSTEM\
                            00  45  4C  54  49  54  05      02999           .ASCII  <5>\TITLE\<0>
                                                08  20      029A0 C.ALT:    .BYTE   ^X20,8
                                                            029A2           .BLKB   2
                                        20  3A  20  5D      029A4 C.ALU:    .ASCII  \] : \
      00000000  00000000  00000000  00000000  00070000      029A8 C.ALV:    .LONG   ^X70000,0,0,0,0,0,0,0
                          00000000  00000000  00000000      029BC
      00000000  00000000  00000000  04410000  00000000      029C8 C.ALW:    .LONG   0,^X4410000,0,0,0,0,0,0
                          00000000  00000000  00000000      029DC
      00000000  00000000  00000000  00000000  00070000      029E8 C.ALX:    .LONG   ^X70000,0,0,0,0,0,0,0
                          00000000  00000000  00000000      029FC
      00000000  00000000  00000000  00000000  00000031      02A08 C.ALY:    .LONG   ^X31,0,0,0,0,0,0,0
                          00000000  00000000  00000000      02A1C
                                        3B  70  50  1B      02A28 C.ALZ:    .ASCII  <27>\Pp;\
28  57  28  54  3B  5D  35  38  32  2C  37  32  5B  50      02A2C C.AMA:    .ASCII  \P[27,285];T(W(I3))' Key:    Good   ';T(W\-
20  20  20  20  3A  79  65  4B  20  27  29  29  33  49      02A3A                   \(I2))'Fair   ';T(W(I1))'Poor';\<0><0>
49  28  57  28  54  3B  27  20  20  20  64  6F  6F  47      02A48
54  3B  27  20  20  20  72  69  61  46  27  29  29  32      02A56
3B  27  72  6F  6F  50  27  29  29  31  49  28  57  28      02A64
                                                00  00      02A72
28  57  28  54  3B  5D  30  32  33  2C  37  32  5B  50      02A74 C.AMB:    .ASCII  \P[27,320];T(W(I3))'\<0>
                                00  27  29  29  33  49      02A82
73  72  65  56  20  67  6F  6C  6F  72  50  2D  56  50      02A88 C.AMC:    .ASCII  \PV-Prolog Version       \
                20  20  20  20  20  20  20  6E  6F  69      02A96
                        00  00  79  65  4B  2D  54  4B      02AA0 C.AMD:    .ASCII  \KT-Key\<0><0>
        00  00  00  20  20  20  20  65  70  79  54  20      02AA8 C.AME:    .ASCII  \ Type    \<0><0><0>
                        20  32  6E  69  42  20  20  20      02AB4 C.AMF:    .ASCII  \   Bin2 \
                        20  34  6E  69  42  20  20  20      02ABC C.AMG:    .ASCII  \   Bin4 \
                        20  38  6E  69  42  20  20  20      02AC4 C.AMH:    .ASCII  \   Bin8 \
                        20  6C  61  6D  69  63  65  44      02ACC C.AMI:    .ASCII  \Decimal \
                        20  32  74  6E  49  20  20  20      02AD4 C.AMJ:    .ASCII  \   Int2 \
                        20  34  74  6E  49  20  20  20      02ADC C.AMK:    .ASCII  \   Int4 \
                        20  38  74  6E  49  20  20  20      02AE4 C.AML:    .ASCII  \   Int8 \
                        20  67  6E  69  72  74  53  20      02AEC C.AMM:    .ASCII  \ String \
00  20  20  73  69  73  61  68  70  6D  45  2D  4D  45      02AF4 C.AMN:    .ASCII  \EM-Emphasis  \<0><0><0>
                                                00  00      02B02
                        00  00  00  20  20  20  20  20      02B04 C.AMO:    .ASCII  \     \<0><0><0>
                        00  72  65  6C  6C  61  6D  53      02B0C C.AMP:    .ASCII  \Smaller\<0>
                        00  72  65  74  74  61  6C  46      02B14 C.AMQ:    .ASCII  \Flatter\<0>
                                        00  00  28  20      02B1C C.AMR:    .ASCII  \ (\<0><0>
        00  00  79  65  4B  20  70  75  44  2D  4B  44      02B20 C.AMS:    .ASCII  \DK-Dup Key\<0><0>
        00  00  00  20  20  73  65  75  6C  61  56  20      02B2C C.AMT:    .ASCII  \ Values  \<0><0><0>
                                        20  73  65  59      02B38 C.AMU:    .ASCII  \Yes \
                                        20  6F  4E  20      02B3C C.AMV:    .ASCII  \ No \
                        00  00  79  65  4B  2D  4C  4B      02B40 C.AMW:    .ASCII  \KL-Key\<0><0>
00  20  20  20  20  20  20  68  74  67  6E  65  4C  20      02B48 C.AMX:    .ASCII  \ Length      \<0><0><0>
```

```
                                                00  00    02B56
                        00  00  79  65  4B  2D  50  4B    02B58  C.AMY:  .ASCII  \KP-Key\<0><0>
        00  20  20  6E  6F  69  74  69  73  6F  50  20    02B60  C.AMZ:  .ASCII  \ Position  \<0>
64  72  6F  63  65  52  20  61  74  61  44  2D  43  52    02B6C  C.ANA:  .ASCII  \RC-Data Record Comp  \<0>
                        00  20  20  70  6D  6F  43  20    02B7A
                                                20  25    02B82  C.ANB:  .ASCII  \% \
6F  43  20  79  65  4B  20  61  74  61  44  2D  43  4B    02B84  C.ANC:  .ASCII  \KC-Data Key Comp      \<0>
                        00  20  20  20  20  20  70  6D    02B92
                                                20  25    02B9A  C.AND:  .ASCII  \% \
72  6F  63  65  52  20  78  65  64  6E  49  2D  43  49    02B9C  C.ANE:  .ASCII  \IC-Index Record Comp \<0>
                        00  20  70  6D  6F  43  20  64    02BAA
                                                20  25    02BB2  C.ANF:  .ASCII  \% \
6C  6C  69  46  20  74  65  6B  63  75  42  2D  46  42    02BB4  C.ANG:  .ASCII  \BF-Bucket Fill        \<0>
                        00  20  20  20  20  20  20  20    02BC2
                                                20  25    02BCA  C.ANH:  .ASCII  \% \
6D  72  6F  46  20  64  72  6F  63  65  52  2D  46  52    02BCC  C.ANI:  .ASCII  \RF-Record Format \<0><0><0>
                                00  00  00  20  74  61    02BDA
        00  00  00  20  65  6C  62  61  69  72  61  56    02BE0  C.ANJ:  .ASCII  \Variable \<0><0><0>
        00  00  00  20  64  65  78  69  46  20  20  20    02BEC  C.ANK:  .ASCII  \   Fixed \<0><0><0>
                                        00  2D  53  52    02BF8  C.ANL:  .ASCII  \RS-\<0>
69  53  20  64  72  6F  63  65  52  20  6E  61  65  4D    02BFC  C.ANM:  .ASCII  \Mean Record Size \<0><0><0>
                                00  00  00  20  65  7A    02C0A
20  20  20  65  7A  69  53  20  64  72  6F  63  65  52    02C10  C.ANN:  .ASCII  \Record Size      \<0><0><0>
                                00  00  00  20  20  20    02C1E
64  6F  68  74  65  4D  20  64  61  6F  4C  2D  4D  4C    02C24  C.ANO:  .ASCII  \LM-Load Method \<0>
                                                00  20    02C32
        00  20  76  6E  6F  43  5F  74  73  61  46  20    02C34  C.ANP:  .ASCII  \ Fast_Conv \<0>
        00  20  6E  6F  43  5F  74  73  61  46  6F  4E    02C40  C.ANQ:  .ASCII  \NoFast_Con \<0>
        00  20  73  74  75  50  5F  53  4D  52  20  20    02C4C  C.ANR:  .ASCII  \  RMS_Puts \<0>
61  6F  4C  20  6C  61  69  74  69  6E  49  2D  4C  49    02C58  C.ANS:  .ASCII  \IL-Initial Load \
                                                20  64    02C66
72  6F  63  65  52  20  64  65  64  64  41  2D  52  41    02C68  C.ANT:  .ASCII  \AR-Added Records\
                                                73  64    02C76
                                        5C  1B  3B  27    02C78  C.ANU:  .ASCII  \';\<27><92>
6F  20  6C  6C  69  46  20  6C  61  69  74  69  6E  49    02C7C  C.ANV:  .ASCII  \Initial Fill of 50% assumed\<0>
00  64  65  6D  75  73  73  61  20  25  30  35  20  66    02C8A
      00000000  00000000  00000000  00000102  00000000    02C98  C.ANW:  .LONG   0,^X102,0,0,0,0,0,0
                          00000000  00000000  00000000    02CAC
      00000000  00000000  00000001  45010004  00000000    02CB8  C.ANX:  .LONG   0,^X45010004,1,0,0,0,0,0
                          00000000  00000000  00000000    02CCC
      00000000  00000000  00000000  00000000  00070000    02CD8  C.ANY:  .LONG   ^X70000,0,0,0,0,0,0,0
                          00000000  00000000  00000000    02CEC
75  20  72  6F  74  63  61  46  20  6C  6C  69  46  20    02CF8  C.ANZ:  .ASCII  \ Fill Factor used is 100% when Initial L\-
68  77  20  25  30  30  31  20  73  69  20  64  65  73    02D06                  \oad is zero. \<0><0><0>
61  6F  4C  20  6C  61  69  74  69  6E  49  20  6E  65    02D14
00  00  00  20  2E  6F  72  65  7A  20  73  69  20  64    02D22
      00000000  00000000  00000000  00000000  00006000    02D30  C.AOA:  .LONG   ^X6000,0,0,0,0,0,0,0
                          00000000  00000000  00000000    02D44
      00000000  00000000  00000000  00000000  00071000    02D50  C.AOB:  .LONG   ^X71000,0,0,0,0,0,0,0
                          00000000  00000000  00000000    02D64
      00000000  00000000  00000000  00000000  00000067    02D70  C.AOC:  .LONG   ^X67,0,0,0,0,0,0,0
                          00000000  00000000  00000000    02D84
        00  5C  1B  3B  29  45  28  53  3B  70  50  1B    02D90  C.AOD:  .ASCII  <27>\Pp;S(E);\<27><92><0>
                                        00  00  09  09    02D9C  C.AOE:  .ASCII  <9><9><0><0>
00  53  53  45  43  43  41  20  6C  61  67  65  4C  20    02DA0  C.AOF:  .ASCII  \ Legal ACCESS\<0><0><0>
                                                00  00    02DAE
2F  73  65  79  09  09  4F  49  5F  4B  43  4F  4C  42    02DB0  C.AOG:  .ASCII  \BLOCK_IO\<9><9>\yes/no\
                                                6F  6E      02DBE
6E  2F  73  65  79  09  09  09  45  54  45  4C  45  44      02DC0 C.AOH:   .ASCII   \DELETE\<9><9><9>\yes/no\<0>
                                                00  6F      02DCE
        6F  6E  2F  73  65  79  09  09  09  54  45  47      02DD0 C.AOI:   .ASCII   \GET\<9><9><9>\yes/no\
        6F  6E  2F  73  65  79  09  09  09  54  55  50      02DDC C.AOJ:   .ASCII   \PUT\<9><9><9>\yes/no\
73  65  79  09  09  4F  49  5F  44  52  4F  43  45  52      02DE8 C.AOK:   .ASCII   \RECORD_IO\<9><9>\yes/no\<0><0><0>
                                00  00  00  6F  6E  2F      02DF6
2F  73  65  79  09  09  45  54  41  43  4E  55  52  54      02DFC C.AOL:   .ASCII   \TRUNCATE\<9><9>\yes/no\
                                                6F  6E      02E0A
6E  2F  73  65  79  09  09  09  45  54  41  44  50  55      02E0C C.AOM:   .ASCII   \UPDATE\<9><9><9>\yes/no\<0>
                                                00  6F      02E1A
                                        00  00  09  09      02E1C C.AON:   .ASCII   <9><9><0><0>
53  45  43  43  41  20  74  6E  65  72  72  75  43  20      02E20 C.AOO:   .ASCII   \ Current ACCESS\<0>
                                                00  53      02E2E
41  20  53  53  45  43  43  41  20  72  65  74  6E  45      02E30 C.AOP:   .ASCII   \Enter ACCESS Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74      02E3E                   <0><0><0>
                        00  00  00  29  64  72  6F  77      02E4C
                                        00  5D  2D  5B      02E54 C.AOQ:   .ASCII   \[-]\<0>
                                        00  20  3A  09      02E58 C.AOR:   .ASCII   <9>\: \<0>
                                        00  00  09  09      02E5C C.AOS:   .ASCII   <9><9><0><0>
        20  41  45  52  41  20  6C  61  67  65  4C  20      02E60 C.AOT:   .ASCII   \ Legal AREA \
75  6E  09  09  4E  4F  49  54  41  43  4F  4C  4C  41      02E6C C.AOU:   .ASCII   \ALLOCATION\<9><9>\number\<0><0>
                                00  00  72  65  62  6D      02E7A
49  54  4E  4F  43  5F  59  52  54  5F  54  53  45  42      02E80 C.AOV:   .ASCII   \BEST_TRY_CONTIGUOUS\<9>\yes/no\<0><0>
00  00  6F  6E  2F  73  65  79  09  53  55  4F  55  47      02E8E
6E  09  09  45  5A  49  53  5F  54  45  4B  43  55  42      02E9C C.AOW:   .ASCII   \BUCKET_SIZE\<9><9>\number\<0>
                                00  72  65  62  6D  75      02EAA
65  79  09  09  53  55  4F  55  47  49  54  4E  4F  43      02EB0 C.AOX:   .ASCII   \CONTIGUOUS\<9><9>\yes/no\<0><0>
                                00  00  6F  6E  2F  73      02EBE
4E  4F  49  54  49  53  4F  50  5F  54  43  41  58  45      02EC4 C.AOY:   .ASCII   \EXACT_POSITIONING\<9>\yes/no\
                6F  6E  2F  73  65  79  09  47  4E  49      02ED2
6D  75  6E  09  09  4E  4F  49  53  4E  45  54  58  45      02EDC C.AOZ:   .ASCII   \EXTENSION\<9><9>\number\<0><0><0>
                                00  00  00  72  65  62      02EEA
75  71  20  20  20  20  4E  4F  49  54  49  53  4F  50      02EF0 C.APA:   .ASCII   \POSITION    qualifier\<9>\number\
72  65  62  6D  75  6E  09  72  65  69  66  69  6C  61      02EFE
65  62  6D  75  6E  09  09  09  45  4D  55  4C  4F  56      02F0C C.APB:   .ASCII   \VOLUME\<9><9><9>\number\<0>
                                                00  72      02F1A
                                        00  00  09  09      02F1C C.APC:   .ASCII   <9><9><0><0>
20  41  45  52  41  20  74  6E  65  72  72  75  43  20      02F20 C.APD:   .ASCII   \ Current AREA \<0><0>
                                                00  00      02F2E
        00  20  41  45  52  41  20  72  65  74  6E  45      02F30 C.APE:   .ASCII   \Enter AREA \<0>
4B  28  09  09  65  74  75  62  69  72  74  74  41  20      02F3C C.APF:   .ASCII   \ Attribute\<9><9>\(Keyword)\<0><0><0>
                00  00  00  29  64  72  6F  77  79  65      02F4A
                                        00  5D  2D  5B      02F54 C.APG:   .ASCII   \[-]\<0>
                                        00  20  3A  09      02F58 C.APH:   .ASCII   <9>\: \<0>
                                        00  00  09  09      02F5C C.API:   .ASCII   <9><9><0><0>
54  43  45  4E  4E  4F  43  20  6C  61  67  65  4C  20      02F60 C.APJ:   .ASCII   \ Legal CONNECT\<0><0>
                                                00  00      02F6E
09  09  53  55  4F  4E  4F  52  48  43  4E  59  53  41      02F70 C.APK:   .ASCII   \ASYNCHRONOUS\<9><9>\yes/no\<9>\NOLOCK\-
09  4B  43  4F  4C  4F  4E  09  6F  6E  2F  73  65  79      02F7E                   <9><9><9>\yes/no\
                        6F  6E  2F  73  65  79  09  09      02F8C
2F  73  65  79  09  09  4F  49  5F  4B  43  4F  4C  42      02F94 C.APL:   .ASCII   \BLOCK_IO\<9><9>\yes/no\<9>\NONEXISTENT_R\-
54  4E  45  54  53  49  58  45  4E  4F  4E  09  6F  6E      02FA2                   \ECORD\<9>\yes/no\<0><0>
6F  6E  2F  73  65  79  09  44  52  4F  43  45  52  5F      02FB0
                                                00  00      02FBE
6E  09  09  45  44  4F  43  5F  54  45  4B  43  55  42      02FC0 C.APM:   .ASCII   \BUCKET_CODE\<9><9>\number\<9>\READ_AHEAD\-
45  48  41  5F  44  41  45  52  09  72  65  62  6D  75      02FCE                   <9><9>\yes/no\<0><0>
```

```
        00  00  6F  6E  2F  73  65  79  09  09  44  41     02FDC
62  6D  75  6E  09  09  09  54  58  45  54  4E  4F  43     02FE8 C.APN:  .ASCII  \CONTEXT\<9><9><9>\number\<9>\READ_REGARD\-
44  52  41  47  45  52  5F  44  41  45  52  09  72  65     02FF6                 \LESS\<9><9>\yes/no\
        6F  6E  2F  73  65  79  09  09  53  53  45  4C     03004
79  09  09  45  4C  49  46  5F  46  4F  5F  44  4E  45     03010 C.APO:  .ASCII  \END_OF_FILE\<9><9>\yes/no\<9>\TIMEOUT_EN\-
5F  54  55  4F  45  4D  49  54  09  6F  6E  2F  73  65     0301E                 \ABLE\<9><9>\yes/no\<0><0>
6F  6E  2F  73  65  79  09  09  45  4C  42  41  4E  45     0302C
                                                00  00     0303A
79  09  09  45  54  45  4C  45  44  5F  54  53  41  46     0303C C.APP:  .ASCII  \FAST_DELETE\<9><9>\yes/no\<9>\TIMEOUT_PE\-
5F  54  55  4F  45  4D  49  54  09  6F  6E  2F  73  65     0304A                 \RIOD\<9><9>\number\<0><0>
72  65  62  6D  75  6E  09  09  44  4F  49  52  45  50     03058
                                                00  00     03066
09  09  53  54  45  4B  43  55  42  5F  4C  4C  49  46     03068 C.APQ:  .ASCII  \FILL_BUCKETS\<9><9>\yes/no\<9>\TRUNCATE_\-
54  41  43  4E  55  52  54  09  6F  6E  2F  73  65  79     03076                 \ON_PUT\<9><9>\yes/no\
2F  73  65  79  09  09  54  55  50  5F  4E  4F  5F  45     03084
                                                6F  6E     03092
51  45  5F  52  45  54  41  45  52  47  5F  59  45  4B     03094 C.APR:  .ASCII  \KEY_GREATER_EQUAL\<9>\yes/no\<9>\TT_CANC\-
5F  54  54  09  6F  6E  2F  73  65  79  09  4C  41  55     030A2                 \EL_CONTROL_O\<9>\yes/no\<0>
4C  4F  52  54  4E  4F  43  5F  4C  45  43  4E  41  43     030B0
                00  6F  6E  2F  73  65  79  09  4F  5F     030BE
48  54  5F  52  45  54  41  45  52  47  5F  59  45  4B     030C8 C.APS:  .ASCII  \KEY_GREATER_THAN\<9>\yes/no\<9>\TT_PROMP\-
50  5F  54  54  09  6F  6E  2F  73  65  79  09  4E  41     030D6                 \T\<9><9>\yes/no\<0><0><0>
00  6F  6E  2F  73  65  79  09  09  54  50  4D  4F  52     030E4
                                                00  00     030F2
73  65  79  09  09  54  49  4D  49  4C  5F  59  45  4B     030F4 C.APT:  .ASCII  \KEY_LIMIT\<9><9>\yes/no\<9>\TT_PURGE_TYP\-
54  5F  45  47  52  55  50  5F  54  54  09  6F  6E  2F     03102                 \E_AHEAD\<9>\yes/no\
2F  73  65  79  09  44  41  45  48  41  5F  45  50  59     03110
                                                6F  6E     0311E
4E  45  52  45  46  45  52  5F  46  4F  5F  59  45  4B     03120 C.APU:  .ASCII  \KEY_OF_REFERENCE\<9>\number\<9>\TT_READ_\-
52  5F  54  54  09  72  65  62  6D  75  6E  09  45  43     0312E                 \NOECHO\<9><9>\yes/no\<0><0>
65  79  09  09  4F  48  43  45  4F  4E  5F  44  41  45     0313C
                                00  00  6F  6E  2F  73     0314A
79  09  09  45  44  4F  4D  5F  45  54  41  43  4F  4C     03150 C.APV:  .ASCII  \LOCATE_MODE\<9><9>\yes/no\<9>\TT_READ_NO\-
5F  44  41  45  52  5F  54  54  09  6F  6E  2F  73  65     0315E                 \FILTER\<9>\yes/no\<0>
6E  2F  73  65  79  09  52  45  54  4C  49  46  4F  4E     0316C
                                                00  6F     0317A
09  09  44  41  45  52  5F  4E  4F  5F  4B  43  4F  4C     0317C C.APW:  .ASCII  \LOCK_ON_READ\<9><9>\yes/no\<9>\TT_UPCASE\-
41  43  50  55  5F  54  54  09  6F  6E  2F  73  65  79     0318A                 \_INPUT\<9><9>\yes/no\
2F  73  65  79  09  09  54  55  50  4E  49  5F  45  53     03198
                                                6F  6E     031A6
09  45  54  49  52  57  5F  4E  4F  5F  4B  43  4F  4C     031A8 C.APX:  .ASCII  \LOCK_ON_WRITE\<9><9>\yes/no\<9>\UPDATE_I\-
45  54  41  44  50  55  09  6F  6E  2F  73  65  79  09     031B6                 \F\<95<95\yes/no\<0>
        00  6F  6E  2F  73  65  79  09  09  46  49  5F     031C4
49  4B  43  4F  4C  4E  55  5F  4C  41  55  4E  41  4D     031D0 C.APY:  .ASCII  \MANUAL_UNLOCKING\<9>\yes/no\<9>\WAIT_FOR\-
54  49  41  57  09  6F  6E  2F  73  65  79  09  47  4E     031DE                 \_RECORD\<9><9>\yes/no\<0>
79  09  09  44  52  4F  43  45  52  5F  52  4F  46  5F     031EC
                                00  6F  6E  2F  73  65     031FA
55  4F  43  5F  4B  43  4F  4C  42  49  54  4C  55  4D     03200 C.APZ:  .ASCII  \MULTIBLOCK_COUNT\<9>\number\<9>\WRITE_BE\-
54  49  52  57  09  72  65  62  6D  75  6E  09  54  4E     0320E                 \HIND\<9><95\yes/no\
2F  73  65  79  09  09  44  4E  49  48  45  42  5F  45     0321C
                                                6F  6E     0322A
4F  43  5F  52  45  46  46  55  42  49  54  4C  55  4D     0322C C.AQA:  .ASCII  \MULTIBUFFER_COUNT\<9>\number\
                72  65  62  6D  75  6E  09  54  4E  55     0323A
                                        00  00  09  09     03244 C.AQB:  .ASCII  <9><9><0><0>
45  4E  4E  4F  43  20  74  6E  65  72  72  75  43  20     03248 C.AQC:  .ASCII  \ Current CONNECT\
                                                54  43     03256
20  54  43  45  4E  4E  4F  43  20  72  65  74  6E  45     03258 C.AQD:  .ASCII  \Enter CONNECT Attribute\<9><9>\(Keyword)\-
```

```
65  4B  28  09  09  65  74  75  62  69  72  74  74  41      03266                  <0><0>
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69  72  74  73  09  09  4E  4F  49  54  41  45  52  43      032A4 C.AQJ:  .ASCII  \CREATION\<9><9>\string\
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6D  75  6E  2F  72  61  68  63  09  09  4E  4F  49  54      03340
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45  54  49  52  57  5F  44  45  52  52  45  46  45  44      0346C C.ARB:  .ASCII  \DEFERRED_WRITE\<9><9>\yes/no\<9>\PROTECT\-
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00  6F  6E  2F  73  65  79  09  09  4E  4F  49  54  43      03488
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53  4F  4C  43  5F  4E  4F  5F  45  54  45  4C  45  44      03498 C.ARC:  .ASCII  \DELETE_ON_CLOSE\<9><9>\yes/no\<9>\READ_C\-
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6F  6E  2F  73  65  79  09  09  4B  43  45  48  43  5F     034B4
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49  56  45  52  09  6F  6E  2F  73  65  79  09  09  59     034D2                 \ON\<9><9>\number\
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6D  75  6E  09  09  4E  4F  49  53  4E  45  54  58  45     034EC C.ARE:  .ASCII  \EXTENSION\<9><9>\number\<9>\SEQUENTIAL_O\-
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5F  52  45  46  46  55  42  5F  4C  41  42  4F  4C  47     03518 C.ARF:  .ASCII  \GLOBAL_BUFFER_COUNT\<9>\number\<9>\SUBMI\-
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00  6F  6E  2F  73  65  79  09  09  59  52  41  52  4F     03594
                                                00  00     035A2
09  45  5A  49  53  5F  4B  43  4F  4C  42  5F  54  4D     035A4 C.ARI:  .ASCII  \MT_BLOCK_SIZE\<9><9>\number\<9>\TRUNCATE\-
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74  74  41  20  45  4C  49  46  20  72  65  74  6E  45     0366C C.ARO:  .ASCII  \Enter FILE Attribute\<9><9>\(Keyword)\<0>
6F  77  79  65  4B  28  09  09  65  74  75  62  69  72     0367A
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                                        00  5D  2D  5B     0368C C.ARP:  .ASCII  \[-]\<0>
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79  09  09  4C  49  41  52  54  5F  54  49  44  55  41     036D0 C.ARV:  .ASCII  \AUDIT_TRAIL\<9><9>\yes/no\<0>
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74  73  09  09  45  4D  41  4E  5F  54  49  44  55  41     036E4 C.ARW:  .ASCII  \AUDIT_NAME\<9><9>\string\<0><0>
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09  09  45  47  41  4D  49  5F  45  52  4F  46  45  42     036F8 C.ARX:  .ASCII  \BEFORE_IMAGE\<9><9>\yes/no\
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73  09  09  45  4D  41  4E  5F  45  52  4F  46  45  42      0370C C.ARY:   .ASCII   \BEFORE_NAME\<9><9>\string\<0>
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09  54  49  4E  55  5F  59  52  45  56  4F  43  45  52      03720 C.ARZ:   .ASCII   \RECOVERY_UNIT\<9><9>\keyword\
                        64  72  6F  77  79  65  6B  09      0372E
                                                09  09      03736 C.ASA:   .ASCII   <9><9>
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20  4C  41  4E  52  55  4F  4A  20  72  65  74  6E  45      03748 C.ASC:   .ASCII   \Enter JOURNAL Attribute\<9><9>\(Keyword)\-
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        00  00  59  45  4B  20  6C  61  67  65  4C  20      03778 C.ASG:   .ASCII   \ Legal KEY\<0><0>
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                                                00  00      037AE
6D  75  6E  09  09  41  45  52  41  5F  41  54  41  44      037B0 C.ASI:   .ASCII   \DATA_AREA\<9><9>\number\<9>\NAME\<9>-
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6D  75  6E  09  09  4C  4C  49  46  5F  41  54  41  44      037D0 C.ASJ:   .ASCII   \DATA_FILL\<9><9>\number\<9>\NULL_KEY\-
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68  63  09  09  45  55  4C  41  56  5F  4C  4C  55  4E      03810
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4F  43  5F  44  52  4F  43  45  52  5F  41  54  41  44      03824 C.ASL:   .ASCII   \DATA_RECORD_COMPRESSION\<9>\yes/no\<9>\P\-
2F  73  65  79  09  4E  4F  49  53  53  45  52  50  4D      03832                   \OSITION\<9><9>\number\<0>
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62  6D  75  6E  09  09  48  54  47  4E  45  4C  5F  6E      038B8
                                                72  65      038C6
75  6E  09  09  4C  4C  49  46  5F  58  45  44  4E  49      038C8 C.ASP:   .ASCII   \INDEX_FILL\<9><9>\number\<9>\SEGn_POSITI\-
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65  62  6D  75  6E  09  09  09  48  54  47  4E  45  4C      038F0 C.ASQ:   .ASCII   \LENGTH\<9><9><9>\number\<0>
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                                        00  00  09  09      03900 C.ASR:   .ASCII   <9><9><0><0>
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        00  00  00  59  45  4B  20  72  65  74  6E  45      03910 C.AST:   .ASCII   \Enter KEY\<0><0><0>
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                                        00  5D  2D  5B      03934 C.ASV:   .ASCII   \[-]\<0>
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                                        00  00  09  09      0393C C.ASX:   .ASCII   <9><9><0><0>
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5F  44  4C  45  49  46  5F  4C  4F  52  54  4E  4F  43      0397C C.ATB:  .ASCII  \CONTROL_FIELD_SIZE\<9>\number\<0><0><0>
00  00  00  72  65  62  6D  75  6E  09  45  5A  49  53      0398A
6F  77  79  65  6B  09  09  09  54  41  4D  52  4F  46      03998 C.ATC:  .ASCII  \FORMAT\<9><9><9>\keyword\
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41  20  44  52  4F  43  45  52  20  72  65  74  6E  45      039C8 C.ATG:  .ASCII  \Enter RECORD Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74      039D6                 <0><0><0>
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                                        00  5D  2D  5B      039EC C.ATH:  .ASCII  \[-]\<0>
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                                        00  00  09  09      039F4 C.ATJ:  .ASCII  <9><9><0><0>
47  4E  49  52  41  48  53  20  6C  61  67  65  4C  20      039F8 C.ATK:  .ASCII  \ Legal SHARING\<0><0>
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                                                6F  6E      03A46
        6F  6E  2F  73  65  79  09  09  09  54  55  50      03A48 C.ATP:  .ASCII  \PUT\<9><9><9>\yes/no\
6E  2F  73  65  79  09  09  09  45  54  41  44  50  55      03A54 C.ATQ:  .ASCII  \UPDATE\<9><9><9>\yes/no\<0>
                                                00  6F      03A62
4B  43  4F  4C  52  45  54  4E  49  5F  52  45  53  55      03A64 C.ATR:  .ASCII  \USER_INTERLOCK\<9><9>\yes/no\
                        6F  6E  2F  73  65  79  09  09      03A72
                                                09  09      03A7A C.ATS:  .ASCII  <9><9>
49  52  41  48  53  20  74  6E  65  72  72  75  43  20      03A7C C.ATT:  .ASCII  \ Current SHARING\
                                                47  4E      03A8A
20  47  4E  49  52  41  48  53  20  72  65  74  6E  45      03A8C C.ATU:  .ASCII  \Enter SHARING Attribute\<9><9>\(Keyword)\-
65  4B  28  09  09  65  74  75  62  69  72  74  74  41      03A9A                 <0><0>
                        00  00  29  64  72  6F  77  79      03AA8
                                        00  5D  2D  5B      03AB0 C.ATV:  .ASCII  \[-]\<0>
                                        00  20  3A  09      03AB4 C.ATW:  .ASCII  <9>\: \<0>
                                        00  00  09  09      03AB8 C.ATX:  .ASCII  <9><9><0><0>
00  4D  45  54  53  59  53  20  6C  61  67  65  4C  20      03ABC C.ATY:  .ASCII  \ Legal SYSTEM\<0><0><0>
                                                00  00      03ACA
6E  69  72  74  73  09  09  09  45  43  49  56  45  44      03ACC C.ATZ:  .ASCII  \DEVICE\<9><9><9>\string\<0>
                                                00  67      03ADA
6F  77  79  65  6B  09  09  09  45  43  52  55  4F  53      03ADC C.AUA:  .ASCII  \SOURCE\<9><9><9>\keyword\
                                                64  72      03AEA
6F  77  79  65  6B  09  09  09  54  45  47  52  41  54      03AEC C.AUB:  .ASCII  \TARGET\<9><9><9>\keyword\
                                                64  72      03AFA
                                        00  00  09  09      03AFC C.AUC:  .ASCII  <9><9><0><0>
45  54  53  59  53  20  74  6E  65  72  72  75  43  20      03B00 C.AUD:  .ASCII  \ Current SYSTEM\<0>
                                                00  4D      03B0E
41  20  4D  45  54  53  59  53  20  72  65  74  6E  45      03B10 C.AUE:  .ASCII  \Enter SYSTEM Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74      03B1E                 <0><0><0>
                        00  00  00  29  64  72  6F  77      03B2C
                                        00  5D  2D  5B      03B34 C.AUF:  .ASCII  \[-]\<0>
```

```
                                                  00   20   3A   09     03B38 C.AUG:    .ASCII    <9>\: \<0>
65   74   6E   65   20   65   75   6C   61   76   20   65   68   54     03B3C C.AUH:    .ASCII    \The value entered will be put into the D\-
75   70   20   65   62   20   6C   6C   69   77   20   64   65   72     03B4A                     \efinition.\<0><0>
66   65   44   20   65   68   74   20   6F   74   6E   69   20   74     03B58
                    00   00   2E   6E   6F   69   74   69   6E   69     03B66
68   20   79   79   79   79   2D   6D   6D   6D   2D   64   64   28     03B70 C.AUI:    .ASCII    \(dd-mmm-yyyy hh:mm:ss.cc)\<0><0><0>
00   00   00   29   63   63   2E   73   73   3A   6D   6D   3A   68     03B7E
20   72   65   64   6E   69   6C   79   63   5F   79   6E   41   28     03B8C C.AUJ:    .ASCII    \(Any_cylinder Cylinder File_ID File_name\
5F   65   6C   69   46   20   72   65   64   6E   69   6C   79   43     03B9A
          65   6D   61   6E   5F   65   6C   69   46   20   44   49     03BA8
20   65   6E   6F   4E   20   6C   61   63   69   67   6F   4C   20     03BB4 C.AUK:    .ASCII    \ Logical None Virtual)\<0><0>
                    00   00   29   6C   61   75   74   72   69   56     03BC2
4E   4F   49   54   49   53   4F   50   20   72   65   74   6E   45     03BCC C.AUL:    .ASCII    \Enter POSITION qualifier\<9>\(\<0><0>
00   00   28   09   72   65   69   66   69   6C   61   75   71   20     03BDA
6F   66   20   65   75   6C   61   76   20   72   65   74   6E   45     03BE8 C.AUM:    .ASCII    \Enter value for this Secondary\<9>\(\
61   64   6E   6F   63   65   53   20   73   69   68   74   20   72     03BF6
                                                  28   09   79   72     03C04
74   61   6C   65   52   20   64   65   78   65   64   6E   49   28     03C08 C.AUN:    .ASCII    \(Indexed Relative Sequential)\<0><0><0>
6C   61   69   74   6E   65   75   71   65   53   20   65   76   69     03C16
                                                  00   00   00   29     03C24
53   52   20   45   2F   53   54   53   52   20   53   41   49   28     03C28 C.AUO:    .ASCII    \(IAS RSTS/E RSX-11M RSX-11M-PLUS RT-11 V\-
2D   4D   31   31   2D   58   53   52   20   4D   31   31   2D   58     03C36                     \AX/VMS)\<0>
58   41   56   20   31   31   2D   54   52   20   53   55   4C   50     03C44
                                        00   29   53   4D   56   2F     03C52
72   65   76   6F   63   65   72   5F   6E   69   5F   66   49   28     03C58 C.AUP:    .ASCII    \(If_in_recovery_unit Necessary_to_write \-
61   73   73   65   63   65   4E   20   74   69   6E   75   5F   79     03C66                     \Never_RU_journal None)\<0><0>
65   4E   20   65   74   69   72   77   5F   6F   74   5F   79   72     03C74
6C   61   6E   72   75   6F   6A   5F   55   52   5F   72   65   76     03C82
                              00   00   29   65   6E   6F   4E   20     03C90
75   74   65   72   5F   65   67   61   69   72   72   61   43   28     03C98 C.AUQ:    .ASCII    \(Carriage_return FORTRAN None Print)\
6E   6F   4E   20   4E   41   52   54   52   4F   46   20   6E   72     03CA6
                              29   74   6E   69   72   50   20   65     03CB4
20   6D   61   65   72   74   53   20   64   65   78   69   46   28     03CBC C.AUR:    .ASCII    \(Fixed Stream Stream_CR Stream_LF\<0>-
65   72   74   53   20   52   43   5F   6D   61   65   72   74   53     03CCA                     <0><0>
                              00   00   00   46   4C   5F   6D   61     03CD8
72   61   56   20   64   65   6E   69   66   65   64   6E   55   20     03CE0 C.AUS:    .ASCII    \ Undefined Variable VFC)\
                    29   43   46   56   20   65   6C   62   61   69     03CEE
6E   69   42   20   34   6E   69   42   20   32   6E   69   42   28     03CF8 C.AUT:    .ASCII    \(Bin2 Bin4 Bin8 Decimal Int2 Int4 Int8 S\-
32   74   6E   49   20   6C   61   6D   69   63   65   44   20   38     03D06                     \tring)\<0><0>
72   74   53   20   38   74   6E   49   20   34   74   6E   49   20     03D14
                                        00   00   29   67   6E   69     03D22
6F   66   20   65   75   6C   61   76   20   72   65   74   6E   45     03D28 C.AUU:    .ASCII    \Enter value for this Secondary\<9>\(Keyw\-
61   64   6E   6F   63   65   53   20   73   69   68   74   20   72     03D36                     \ord)\
          29   64   72   6F   77   79   65   4B   28   09   79   72     03D44
                                                  00   5D   2D   5B     03D50 C.AUV:    .ASCII    \[-]\<0>
                                                  00   20   3A   09     03D54 C.AUW:    .ASCII    <9>\: \<0>
                          4C000000   00000000   00000000   00000000     03D58 C.AUX:    .LONG     0,0,0,^X4C000000
                                                       00   00   00     03D68           .BYTE     0,0,0
                                                                        03D6B           .BLKB     1
                              29   30   30   31   3C   73   62   41     03D6C C.AUY:    .ASCII    \Abs<100)\
                              29   61   67   69   47   31   2D   30     03D74 C.AUZ:    .ASCII    \0-1Giga)\
                                                  00   00   2D   30     03D7C C.AVA:    .ASCII    \0-\<0><0>
                                                  00   5D   2D   5B     03D80 C.AVB:    .ASCII    \[-]\<0>
                                                  00   20   3A   20     03D84 C.AVC:    .ASCII    \ : \<0>
                                                  00   20   3A   09     03D88 C.AVD:    .ASCII    <9>\: \<0>
                          4C000000   00000000   00000000   00000000     03D8C C.AVE:    .LONG     0,0,0,^X4C000000
                                                       00   00   00     03D9C           .BYTE     0,0,0
```

```
                                                         03D9F         .BLKB   1
        00  00  00  29  72  74  73  2D  65  74  61  44   03DA0 C.AVF:  .ASCII  \Date-str)\<0><0><0>
                                        00  5D  2D  5B   03DAC C.AVG:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03DB0 C.AVH:  .ASCII  <9>\: \<0>
75  6E  5B  29  73  72  61  68  63  20  32  33  2D  31   03DB4 C.AVI:  .ASCII  \1-32 chars)[null]\<9>\: \
                                20  3A  09  5D  6C  6C   03DC2
6E  5B  29  73  72  61  68  63  20  36  32  31  2D  31   03DC8 C.AVJ:  .ASCII  \1-126 chars)[null]\
                                        5D  6C  6C  75   03DD6
                                                20  3A   03DDA C.AVK:  .ASCII  \: \
                        00  29  6F  4E  2F  73  65  59   03DDC C.AVL:  .ASCII  \Yes/No)\<0>
                                        00  5D  2D  5B   03DE4 C.AVM:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03DE8 C.AVN:  .ASCII  <9>\: \<0>
                        29  72  74  73  2D  43  49  55   03DEC C.AVO:  .ASCII  \UIC-str)\
                                        00  5D  2D  5B   03DF4 C.AVP:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03DF8 C.AVQ:  .ASCII  <9>\: \<0>
        00  00  00  29  72  74  73  2D  74  6F  72  50   03DFC C.AVR:  .ASCII  \Prot-str)\<0><0><0>
                                        00  5D  2D  5B   03E08 C.AVS:  .ASCII  \[-]\<0>
                                        00  00  20  3A   03E0C C.AVT:  .ASCII  \: \<0><0>
                        29  64  72  6F  77  79  65  4B   03E10 C.AVU:  .ASCII  \Keyword)\
                                        00  5D  2D  5B   03E18 C.AVV:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03E1C C.AVW:  .ASCII  <9>\: \<0>
      00000000  00000000  00000000  00000000  00000041   03E20 C.AVX:  .LONG   ^X41,0,0,0,0,0,0,0
                          00000000  00000000  00000000   03E34
4E  4F  49  54  49  53  4F  50  20  72  65  74  6E  45   03E40 C.AVY:  .ASCII  \Enter POSITION value\<9><9>\(\<0>
                00  28  09  09  65  75  6C  61  76  20   03E4E
                        29  61  67  69  47  31  2D  30   03E58 C.AVZ:  .ASCII  \0-1Giga)\
                                        00  5D  2D  5B   03E60 C.AWA:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03E64 C.AWB:  .ASCII  <9>\: \<0>
                        29  72  74  73  2D  44  49  46   03E68 C.AWC:  .ASCII  \FID-str)\
                                        00  5D  2D  5B   03E70 C.AWD:  .ASCII  \[-]\<0>
                                        00  20  3A  09   03E74 C.AWE:  .ASCII  <9>\: \<0>
6E  5B  29  73  72  61  68  63  20  39  30  31  2D  31   03E78 C.AWF:  .ASCII  \1-109 chars)[null]\
                                        5D  6C  6C  75   03E86
                                                20  3A   03E8A C.AWG:  .ASCII  \: \
        00  29  6D  75  6E  2F  27  72  61  68  63  27   03E8C C.AWH:  .ASCII  \'char'/num)\<0>
                                        00  5D  2D  5B   03E98 C.AWI:  .ASCII  \[-]\<0>
                                            20  3A  09   03E9C C.AWJ:  .ASCII  <9>\: \

                                                         00000 WRITE_HELP:                                                 ; 0190
                                                    0000 00000         .WORD   ^M<>
                        32          13 00000000G  EF  CF 00002          CASEL  QTAB_OFFSET,#19,#50                        ; 0194
                                               0000V     0000A         .DISPL  17$
                                               0000V     0000C         .DISPL  17$
                                               0000V     0000E         .DISPL  17$
                                               0000V     00010         .DISPL  19$
                                               0000V     00012         .DISPL  11$
                                               0000V     00014         .DISPL  14$
                                               0066      00016         .DISPL  102
                                               0000V     00018         .DISPL  6$
                                               0000V     0001A         .DISPL  7$
                                               0000V     0001C         .DISPL  4$
                                               0000V     0001E         .DISPL  3$
                                               0000V     00020         .DISPL  5$
                                               0066      00022         .DISPL  102
                                               0000V     00024         .DISPL  18$
                                               0000V     00026         .DISPL  32$
                                               0000V     00028         .DISPL  13$
                          0000V    0002A         .DISPL  13$
                          0000V    0002C         .DISPL  13$
                          0000V    0002E         .DISPL  20$
                          0000V    00030         .DISPL  21$
                          0000V    00032         .DISPL  39$
                          0000V    00034         .DISPL  34$
                           0066    00036         .DISPL  102
                          0000V    00038         .DISPL  1$
                          0000V    0003A         .DISPL  26$
                          0000V    0003C         .DISPL  26$
                          0000V    0003E         .DISPL  26$
                           0066    00040         .DISPL  102
                           0066    00042         .DISPL  102
                          0000V    00044         .DISPL  12$
                          0000V    00046         .DISPL  12$
                          0000V    00048         .DISPL  12$
                          0000V    0004A         .DISPL  2$
                          0000V    0004C         .DISPL  15$
                          0000V    0004E         .DISPL  15$
                          0000V    00050         .DISPL  15$
                          0000V    00052         .DISPL  27$
                          0000V    00054         .DISPL  22$
                          0000V    00056         .DISPL  36$
                          0000V    00058         .DISPL  35$
                           0066    0005A         .DISPL  102
                          0000V    0005C         .DISPL  33$
                          0000V    0005E         .DISPL  10$
                          0000V    00060         .DISPL  16$
                          0000V    00062         .DISPL  9$
                          0000V    00064         .DISPL  31$
                          0000V    00066         .DISPL  8$
                           0066    00068         .DISPL  102
                           0066    0006A         .DISPL  102
                          0000V    0006C         .DISPL  35$
                          0000V    0006E         .DISPL  35$
                          0000V 31 00070         BRW     40$
               00000000G     EF 9F 00073 1$:     PUSHAB  SHIFT                            ; 0198
                             04 DD 00079         PUSHL   #4
               00000000G     EF 9F 0007B         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03 FB 00081         CALLS   #3,PAS$WRITE_STRING
               FFFFC0D3      EF 9F 00088         PUSHAB  C.AAA
                             32 DD 0008E         PUSHL   #50
               00000000G     EF 9F 00090         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03 FB 00096         CALLS   #3,PAS$WRITE_STRING
               00000000G     EF 9F 0009D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                01 FB 000A3         CALLS   #1,PAS$WRITELN2
                          0000V 31 000AA         BRW     41$
               00000000G     EF 9F 000AD 2$:     PUSHAB  SHIFT                            ; 0202
                             04 DD 000B3         PUSHL   #4
               00000000G     EF 9F 000B5         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03 FB 000BB         CALLS   #3,PAS$WRITE_STRING
               FFFFC0CD      EF 9F 000C2         PUSHAB  C.AAB
                             34 DD 000C8         PUSHL   #52
               00000000G     EF 9F 000CA         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03 FB 000D0         CALLS   #3,PAS$WRITE_STRING
               00000000G     EF 9F 000D7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                01 FB 000DD         CALLS   #1,PAS$WRITELN2
```

```
                      0000V  31 000E4         BRW     41$
               00000000G EF  9F 000E7 3$:     PUSHAB  SHIFT                     ; 0207
                         04  DD 000ED         PUSHL   #4
               00000000G EF  9F 000EF         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 000F5         CALLS   #3,PAS$WRITE_STRING
                FFFFC0C7 EF  9F 000FC         PUSHAB  C.AAC
                         2C  DD 00102         PUSHL   #44
               00000000G EF  9F 00104         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 0010A         CALLS   #3,PAS$WRITE_STRING
               00000000G EF  9F 00111         PUSHAB  CRLF_SHIFT
                         06  DD 00117         PUSHL   #6
               00000000G EF  9F 00119         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 0011F         CALLS   #3,PAS$WRITE_STRING
                FFFFC0C9 EF  9F 00126         PUSHAB  C.AAD
                         22  DD 0012C         PUSHL   #34
               00000000G EF  9F 0012E         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00134         CALLS   #3,PAS$WRITE_STRING
               00000000G EF  9F 0013B         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 00141         CALLS   #1,PAS$WRITELN2
                      0000V  31 00148         BRW     41$
               00000000G EF  9F 0014B 4$:     PUSHAB  SHIFT                     ; 0213
                         04  DD 00151         PUSHL   #4
               00000000G EF  9F 00153         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00159         CALLS   #3,PAS$WRITE_STRING
                FFFFC0B3 EF  9F 00160         PUSHAB  C.AAE
                         28  DD 00166         PUSHL   #40
               00000000G EF  9F 00168         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 0016E         CALLS   #3,PAS$WRITE_STRING
               00000000G EF  9F 00175         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 0017B         CALLS   #1,PAS$WRITELN2
                      0000V  31 00182         BRW     41$
               00000000G EF  9F 00185 5$:     PUSHAB  SHIFT                     ; 0217
                         04  DD 0018B         PUSHL   #4
               00000000G EF  9F 0018D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00193         CALLS   #3,PAS$WRITE_STRING
                FFFFC0A1 EF  9F 0019A         PUSHAB  C.AAF
                         28  DD 001A0         PUSHL   #40
               00000000G EF  9F 001A2         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 001A8         CALLS   #3,PAS$WRITE_STRING
               00000000G EF  9F 001AF         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 001B5         CALLS   #1,PAS$WRITELN2
                      0000V  31 001BC         BRW     41$
               00000000G EF  9F 001BF 6$:     PUSHAB  SHIFT                     ; 0221
                         04  DD 001C5         PUSHL   #4
               00000000G EF  9F 001C7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 001CD         CALLS   #3,PAS$WRITE_STRING
                FFFFC08F EF  9F 001D4         PUSHAB  C.AAG
                         2D  DD 001DA         PUSHL   #45
               00000000G EF  9F 001DC         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 001E2         CALLS   #3,PAS$WRITE_STRING
               00000000G EF  9F 001E9         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 001EF         CALLS   #1,PAS$WRITELN2
                      0000V  31 001F6         BRW     41$
               00000000G EF  9F 001F9 7$:     PUSHAB  SHIFT                     ; 0225
                         04  DD 001FF         PUSHL   #4
               00000000G EF  9F 00201         PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00207         CALLS   #3,PAS$WRITE_STRING
```

```
                          FFFFC085    EF    9F 0020E          PUSHAB  C.AAH
                                      31    DD 00214          PUSHL   #49
                          00000000G   EF    9F 00216          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 0021C          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 00223          PUSHAB  CRLF_SHIFT
                                      06    DD 00229          PUSHL   #6
                          00000000G   EF    9F 0022B          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 00231          CALLS   #3,PAS$WRITE_STRING
                          FFFFC08F    EF    9F 00238          PUSHAB  C.AAI
                                      2D    DD 0023E          PUSHL   #45
                          00000000G   EF    9F 00240          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 00246          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 0024D          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           01    FB 00253          CALLS   #1,PAS$WRITELN2
                                  0000V     31 0025A          BRW     41$
                          00000000G   EF    9F 0025D  8$:     PUSHAB  SHIFT                                    ; 0231
                                      04    DD 00263          PUSHL   #4
                          00000000G   EF    9F 00265          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 0026B          CALLS   #3,PAS$WRITE_STRING
                          FFFFC085    EF    9F 00272          PUSHAB  C.AAJ
                                      38    DD 00278          PUSHL   #56
                          00000000G   EF    9F 0027A          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 00280          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 00287          PUSHAB  CRLF_SHIFT
                                      06    DD 0028D          PUSHL   #6
                          00000000G   EF    9F 0028F          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 00295          CALLS   #3,PAS$WRITE_STRING
                          FFFFC093    EF    9F 0029C          PUSHAB  C.AAK
                                      19    DD 002A2          PUSHL   #25
                          00000000G   EF    9F 002A4          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 002AA          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 002B1          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           01    FB 002B7          CALLS   #1,PAS$WRITELN2
                                  0000V     31 002BE          BRW     41$
                          00000000G   EF    9F 002C1  9$:     PUSHAB  SHIFT                                    ; 0237
                                      04    DD 002C7          PUSHL   #4
                          00000000G   EF    9F 002C9          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 002CF          CALLS   #3,PAS$WRITE_STRING
                          FFFFC075    EF    9F 002D6          PUSHAB  C.AAL
                                      2F    DD 002DC          PUSHL   #47
                          00000000G   EF    9F 002DE          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 002E4          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 002EB          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           01    FB 002F1          CALLS   #1,PAS$WRITELN2
                                  0000V     31 002F8          BRW     41$
                          00000000G   EF    9F 002FB  10$:    PUSHAB  SHIFT                                    ; 0241
                                      04    DD 00301          PUSHL   #4
                          00000000G   EF    9F 00303          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 00309          CALLS   #3,PAS$WRITE_STRING
                          FFFFC06B    EF    9F 00310          PUSHAB  C.AAM
                                      2F    DD 00316          PUSHL   #47
                          00000000G   EF    9F 00318          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           03    FB 0031E          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F 00325          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF           01    FB 0032B          CALLS   #1,PAS$WRITELN2
                                  0000V     31 00332          BRW     41$
                          00000000G   EF    9F 00335  11$:    PUSHAB  SHIFT                                    ; 0245
```

```
                                     04  DD 0033B            PUSHL   #4
                         00000000G   EF  9F 0033D            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 00343            CALLS   #3,PAS$WRITE_STRING
                         FFFFC061    EF  9F 0034A            PUSHAB  C.AAN
                                     37  DD 00350            PUSHL   #55
                         00000000G   EF  9F 00352            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 00358            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 0035F            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01  FB 00365            CALLS   #1,PAS$WRITELN2
                                  0000V  31 0036C            BRW     41$
                         00000000G   EF  9F 0036F 12$:       PUSHAB  SHIFT                                      ; 0252
                                     04  DD 00375            PUSHL   #4
                         00000000G   EF  9F 00377            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 0037D            CALLS   #3,PAS$WRITE_STRING
                         FFFFC05F    EF  9F 00384            PUSHAB  C.AAO
                                     35  DD 0038A            PUSHL   #53
                         00000000G   EF  9F 0038C            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 00392            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 00399            PUSHAB  CRLF_SHIFT
                                     06  DD 0039F            PUSHL   #6
                         00000000G   EF  9F 003A1            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 003A7            CALLS   #3,PAS$WRITE_STRING
                         FFFFC06D    EF  9F 003AE            PUSHAB  C.AAP
                                     37  DD 003B4            PUSHL   #55
                         00000000G   EF  9F 003B6            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 003BC            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 003C3            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01  FB 003C9            CALLS   #1,PAS$WRITELN2
                                  0000V  31 003D0            BRW     41$
                         00000000G   EF  9F 003D3 13$:       PUSHAB  SHIFT                                      ; 0260
                                     04  DD 003D9            PUSHL   #4
                         00000000G   EF  9F 003DB            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 003E1            CALLS   #3,PAS$WRITE_STRING
                         FFFFC06B    EF  9F 003E8            PUSHAB  C.AAQ
                                     38  DD 003EE            PUSHL   #56
                         00000000G   EF  9F 003F0            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 003F6            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 003FD            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01  FB 00403            CALLS   #1,PAS$WRITELN2
                                  0000V  31 0040A            BRW     41$
                         00000000G   EF  9F 0040D 14$:       PUSHAB  SHIFT                                      ; 0265
                                     04  DD 00413            PUSHL   #4
                         00000000G   EF  9F 00415            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 0041B            CALLS   #3,PAS$WRITE_STRING
                         FFFFC069    EF  9F 00422            PUSHAB  C.AAR
                                     3A  DD 00428            PUSHL   #58
                         00000000G   EF  9F 0042A            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 00430            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 00437            PUSHAB  CRLF_SHIFT
                                     06  DD 0043D            PUSHL   #6
                         00000000G   EF  9F 0043F            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 00445            CALLS   #3,PAS$WRITE_STRING
                         FFFFC07B    EF  9F 0044C            PUSHAB  C.AAS
                                     34  DD 00452            PUSHL   #52
                         00000000G   EF  9F 00454            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03  FB 0045A            CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF  9F 00461            PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF              01  FB 00467          CALLS   #1,PAS$WRITELN2
                        0000V  31 0046E          BRW     41$
              00000000G    EF  9F 00471  15$:    PUSHAB  SHIFT                                   ; 0273
                           04  DD 00477          PUSHL   #4
              00000000G    EF  9F 00479          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 0047F          CALLS   #3,PAS$WRITE_STRING
              FFFFC075     EF  9F 00486          PUSHAB  C.AAT
                           31  DD 0048C          PUSHL   #49
              00000000G    EF  9F 0048E          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00494          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 0049B          PUSHAB  CRLF_SHIFT
                           06  DD 004A1          PUSHL   #6
              00000000G    EF  9F 004A3          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004A9          CALLS   #3,PAS$WRITE_STRING
              FFFFC07F     EF  9F 004B0          PUSHAB  C.AAU
                           3D  DD 004B6          PUSHL   #61
              00000000G    EF  9F 004B8          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004BE          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 004C5          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              01  FB 004CB          CALLS   #1,PAS$WRITELN2
                        0000V  31 004D2          BRW     41$
              00000000G    EF  9F 004D5  16$:    PUSHAB  SHIFT                                   ; 0279
                           04  DD 004DB          PUSHL   #4
              00000000G    EF  9F 004DD          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004E3          CALLS   #3,PAS$WRITE_STRING
              FFFFC085     EF  9F 004EA          PUSHAB  C.AAV
                           34  DD 004F0          PUSHL   #52
              00000000G    EF  9F 004F2          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004F8          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 004FF          PUSHAB  CRLF_SHIFT
                           06  DD 00505          PUSHL   #6
              00000000G    EF  9F 00507          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 0050D          CALLS   #3,PAS$WRITE_STRING
              FFFFC08F     EF  9F 00514          PUSHAB  C.AAW
                           33  DD 0051A          PUSHL   #51
              00000000G    EF  9F 0051C          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00522          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 00529          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              01  FB 0052F          CALLS   #1,PAS$WRITELN2
                        0000V  31 00536          BRW     41$
              00000000G    EF  9F 00539  17$:    PUSHAB  SHIFT                                   ; 0288
                           04  DD 0053F          PUSHL   #4
              00000000G    EF  9F 00541          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00547          CALLS   #3,PAS$WRITE_STRING
              FFFFC089     EF  9F 0054E          PUSHAB  C.AAX
                           3A  DD 00554          PUSHL   #58
              00000000G    EF  9F 00556          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 0055C          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 00563          PUSHAB  CRLF_SHIFT
                           06  DD 00569          PUSHL   #6
              00000000G    EF  9F 0056B          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00571          CALLS   #3,PAS$WRITE_STRING
              FFFFC098     EF  9F 00578          PUSHAB  C.AAY
                           3D  DD 0057E          PUSHL   #61
              00000000G    EF  9F 00580          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00586          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 0058D          PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF            01  FB 00593        CALLS   #1,PAS$WRITELN2
                      0000V  31 0059A        BRW     41$
             00000000G   EF  9F 0059D  18$:  PUSHAB  SHIFT                              ; 0295
                         04  DD 005A3        PUSHL   #4
             00000000G   EF  9F 005A5        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 005AB        CALLS   #3,PAS$WRITE_STRING
             FFFFC0A1    EF  9F 005B2        PUSHAB  C.AAZ
                         35  DD 005B8        PUSHL   #53
             00000000G   EF  9F 005BA        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 005C0        CALLS   #3,PAS$WRITE_STRING
             00000000G   EF  9F 005C7        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 005CD        CALLS   #1,PAS$WRITELN2
                      0000V  31 005D4        BRW     41$
             00000000G   EF  9F 005D7  19$:  PUSHAB  SHIFT                              ; 0300
                         04  DD 005DD        PUSHL   #4
             00000000G   EF  9F 005DF        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 005E5        CALLS   #3,PAS$WRITE_STRING
             FFFFC09F    EF  9F 005EC        PUSHAB  C.ABA
                         33  DD 005F2        PUSHL   #51
             00000000G   EF  9F 005F4        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 005FA        CALLS   #3,PAS$WRITE_STRING
             00000000G   EF  9F 00601        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 00607        CALLS   #1,PAS$WRITELN2
                      0000V  31 0060E        BRW     41$
             00000000G   EF  9F 00611  20$:  PUSHAB  SHIFT                              ; 0305
                         04  DD 00617        PUSHL   #4
             00000000G   EF  9F 00619        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 0061F        CALLS   #3,PAS$WRITE_STRING
             FFFFC099    EF  9F 00626        PUSHAB  C.ABB
                         3A  DD 0062C        PUSHL   #58
             00000000G   EF  9F 0062E        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00634        CALLS   #3,PAS$WRITE_STRING
             00000000G   EF  9F 0063B        PUSHAB  CRLF_SHIFT
                         06  DD 00641        PUSHL   #6
             00000000G   EF  9F 00643        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00649        CALLS   #3,PAS$WRITE_STRING
             FFFFC0AB    EF  9F 00650        PUSHAB  C.ABC
                         38  DD 00656        PUSHL   #56
             00000000G   EF  9F 00658        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 0065E        CALLS   #3,PAS$WRITE_STRING
             00000000G   EF  9F 00665        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01  FB 0066B        CALLS   #1,PAS$WRITELN2
                      0000V  31 00672        BRW     41$
             00000000G   EF  9F 00675  21$:  PUSHAB  SHIFT                              ; 0312
                         04  DD 0067B        PUSHL   #4
             00000000G   EF  9F 0067D        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00683        CALLS   #3,PAS$WRITE_STRING
             FFFFC0A9    EF  9F 0068A        PUSHAB  C.ABD
                         34  DD 00690        PUSHL   #52
             00000000G   EF  9F 00692        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 00698        CALLS   #3,PAS$WRITE_STRING
             00000000G   EF  9F 0069F        PUSHAB  CRLF_SHIFT
                         06  DD 006A5        PUSHL   #6
             00000000G   EF  9F 006A7        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03  FB 006AD        CALLS   #3,PAS$WRITE_STRING
             FFFFC0B3    EF  9F 006B4        PUSHAB  C.ABE
                         32  DD 006BA        PUSHL   #50
```

```
                           00000000G   EF   9F 006BC         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 006C2         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 006C9         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              01   FB 006CF         CALLS   #1,PAS$WRITELN2
                                   0000V    31 006D6         BRW     41$
          00V00000000G  EF              00   E1 006D9 22$:    BBC     #0,WAIT_HELP,24$                                  ; 0319
                           00000000G   EF   9F 006E1         PUSHAB  SHIFT                                             ; 0321
                                       04   DD 006E7         PUSHL   #4
                           00000000G   EF   9F 006E9         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 006EF         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0A5    EF   9F 006F6         PUSHAB  C.ABF
                                       34   DD 006FC         PUSHL   #52
                           00000000G   EF   9F 006FE         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 00704         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 0070B         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              01   FB 00711         CALLS   #1,PAS$WRITELN2
                                   0000V    31 00718         BRW     41$
                           00000000G   EF   9F 0071B 24$:    PUSHAB  SHIFT                                             ; 0326
                                       04   DD 00721         PUSHL   #4
                           00000000G   EF   9F 00723         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 00729         CALLS   #3,PAS$WRITE_STRING
                           FFFFC09F    EF   9F 00730         PUSHAB  C.ABG
                                       39   DD 00736         PUSHL   #57
                           00000000G   EF   9F 00738         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 0073E         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 00745         PUSHAB  CRLF_SHIFT
                                       06   DD 0074B         PUSHL   #6
                           00000000G   EF   9F 0074D         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 00753         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0B1    EF   9F 0075A         PUSHAB  C.ABH
                                       3B   DD 00760         PUSHL   #59
                           00000000G   EF   9F 00762         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 00768         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 0076F         PUSHAB  CRLF_SHIFT
                                       06   DD 00775         PUSHL   #6
                           00000000G   EF   9F 00777         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 0077D         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0C3    EF   9F 00784         PUSHAB  C.ABI
                                       3C   DD 0078A         PUSHL   #60
                           00000000G   EF   9F 0078C         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 00792         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 00799         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              01   FB 0079F         CALLS   #1,PAS$WRITELN2
                                   0000V    31 007A6         BRW     41$
                           00000000G   EF   9F 007A9 26$:    PUSHAB  SHIFT                                             ; 0337
                                       04   DD 007AF         PUSHL   #4
                           00000000G   EF   9F 007B1         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 007B7         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0C5    EF   9F 007BE         PUSHAB  C.ABJ
                                       2D   DD 007C4         PUSHL   #45
                           00000000G   EF   9F 007C6         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03   FB 007CC         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 007D3         PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              01   FB 007D9         CALLS   #1,PAS$WRITELN2
                                   0000V    31 007E0         BRW     41$
          00V00000000G  EF              00   E1 007E3 27$:    BBC     #0,WAIT_HELP,29$                                  ; 0343
                           00000000G   EF   9F 007EB         PUSHAB  SHIFT                                             ; 0345
```

```
                                       04  DD 007F1         PUSHL   #4
                           00000000G   EF  9F 007F3         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 007F9         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0B3    EF  9F 00800         PUSHAB  C.ABK
                                       39  DD 00806         PUSHL   #57
                           00000000G   EF  9F 00808         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 0080E         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 00815         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   01  FB 0081B         CALLS   #1,PAS$WRITELN2
                                    0000V  31 00822         BRW     41$
                           00000000G   EF  9F 00825 29$:    PUSHAB  SHIFT                                  ; 0350
                                       04  DD 0082B         PUSHL   #4
                           00000000G   EF  9F 0082D         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 00833         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0B5    EF  9F 0083A         PUSHAB  C.ABL
                                       03  DD 00840         PUSHL   #3
                           00000000G   EF  9F 00842         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 00848         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 0084F         PUSHAB  CRLF_SHIFT
                                       06  DD 00855         PUSHL   #6
                           00000000G   EF  9F 00857         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 0085D         CALLS   #3,PAS$WRITE_STRING
                           FFFFC08F    EF  9F 00864         PUSHAB  C.ABM
                                       39  DD 0086A         PUSHL   #57
                           00000000G   EF  9F 0086C         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 00872         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 00879         PUSHAB  CRLF_SHIFT
                                       06  DD 0087F         PUSHL   #6
                           00000000G   EF  9F 00881         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 00887         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0A1    EF  9F 0088E         PUSHAB  C.ABN
                                       36  DD 00894         PUSHL   #54
                           00000000G   EF  9F 00896         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 0089C         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 008A3         PUSHAB  CRLF_SHIFT
                                       06  DD 008A9         PUSHL   #6
                           00000000G   EF  9F 008AB         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 008B1         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0AF    EF  9F 008B8         PUSHAB  C.ABO
                                       37  DD 008BE         PUSHL   #55
                           00000000G   EF  9F 008C0         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 008C6         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 008CD         PUSHAB  CRLF_SHIFT
                                       06  DD 008D3         PUSHL   #6
                           00000000G   EF  9F 008D5         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 008DB         CALLS   #3,PAS$WRITE_STRING
                           FFFFC0BD    EF  9F 008E2         PUSHAB  C.ABP
                                       39  DD 008E8         PUSHL   #57
                           00000000G   EF  9F 008EA         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 008F0         CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF  9F 008F7         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   01  FB 008FD         CALLS   #1,PAS$WRITELN2
                                    0000V  31 00904         BRW     41$
                           00000000G   EF  9F 00907 31$:    PUSHAB  SHIFT                                  ; 0365
                                       04  DD 0090D         PUSHL   #4
                           00000000G   EF  9F 0090F         PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                   03  FB 00915         CALLS   #3,PAS$WRITE_STRING
```

```
                 FFFFC0BF  EF  9F 0091C        PUSHAB  C.ABQ
                       29      DD 00922        PUSHL   #41
                000000000G EF  9F 00924        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 0092A        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 00931        PUSHAB  CRLF_SHIFT
                       06      DD 00937        PUSHL   #6
                000000000G EF  9F 00939        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 0093F        CALLS   #3,PAS$WRITE_STRING
                 FFFFC0C1  EF  9F 00946        PUSHAB  C.ABR
                       3C      DD 0094C        PUSHL   #60
                000000000G EF  9F 0094E        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 00954        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 0095B        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        01      FB 00961        CALLS   #1,PAS$WRITELN2
                     0000V     31 00968        BRW     41$
                000000000G EF  9F 0096B 32$:   PUSHAB  SHIFT                               ; 0371
                       04      DD 00971        PUSHL   #4
                000000000G EF  9F 00973        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 00979        CALLS   #3,PAS$WRITE_STRING
                 FFFFC0C3  EF  9F 00980        PUSHAB  C.ABS
                       1E      DD 00986        PUSHL   #30
                000000000G EF  9F 00988        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 0098E        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 00995        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        01      FB 0099B        CALLS   #1,PAS$WRITELN2
                     0000V     31 009A2        BRW     41$
                000000000G EF  9F 009A5 33$:   PUSHAB  SHIFT                               ; 0375
                       04      DD 009AB        PUSHL   #4
                000000000G EF  9F 009AD        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 009B3        CALLS   #3,PAS$WRITE_STRING
                 FFFFC0A9  EF  9F 009BA        PUSHAB  C.ABT
                       2C      DD 009C0        PUSHL   #44
                000000000G EF  9F 009C2        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 009C8        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 009CF        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        01      FB 009D5        CALLS   #1,PAS$WRITELN2
                     0000V     31 009DC        BRW     41$
                000000000G EF  9F 009DF 34$:   PUSHAB  SHIFT                               ; 0379
                       04      DD 009E5        PUSHL   #4
                000000000G EF  9F 009E7        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 009ED        CALLS   #3,PAS$WRITE_STRING
                 FFFFC09B  EF  9F 009F4        PUSHAB  C.ABU
                       2F      DD 009FA        PUSHL   #47
                000000000G EF  9F 009FC        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 00A02        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 00A09        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        01      FB 00A0F        CALLS   #1,PAS$WRITELN2
                     0000V     31 00A16        BRW     41$
                000000000G EF  9F 00A19 35$:   PUSHAB  SHIFT                               ; 0385
                       04      DD 00A1F        PUSHL   #4
                000000000G EF  9F 00A21        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 00A27        CALLS   #3,PAS$WRITE_STRING
                 FFFFC091  EF  9F 00A2E        PUSHAB  C.ABV
                       2C      DD 00A34        PUSHL   #44
                000000000G EF  9F 00A36        PUSHAB  PAS$FV_OUTPUT
  00000000G  EF        03      FB 00A3C        CALLS   #3,PAS$WRITE_STRING
                000000000G EF  9F 00A43        PUSHAB  PAS$FV_OUTPUT
```

```
                            00000000G  EF            01   FB 00A49         CALLS   #1,PAS$WRITELN2
                                                   0000V  31 00A50         BRW     41$
                                          00000000G  EF   9F 00A53 36$:    PUSHAB  SHIFT                                      ; 0391
                                                     04   DD 00A59         PUSHL   #4
                                          00000000G  EF   9F 00A5B         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00A61         CALLS   #3,PAS$WRITE_STRING
                                          FFFFC083   EF   9F 00A68         PUSHAB  C.ABW
                                                     3C   DD 00A6E         PUSHL   #60
                                          00000000G  EF   9F 00A70         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00A76         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00A7D         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            01   FB 00A83         CALLS   #1,PAS$WRITELN2
                                       03 00000108G  EF   D1 00A8A         CMPL    IDATA+264,#3                               ; 0394
                                                     00V  13 00A91         BEQL    38$
                                          00000000G  EF   9F 00A93         PUSHAB  SHIFT                                      ; 0396
                                                     04   DD 00A99         PUSHL   #4
                                          00000000G  EF   9F 00A9B         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00AA1         CALLS   #3,PAS$WRITE_STRING
                                          FFFFC07F   EF   9F 00AA8         PUSHAB  C.ABX
                                                     2C   DD 00AAE         PUSHL   #44
                                          00000000G  EF   9F 00AB0         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00AB6         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00ABD         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            01   FB 00AC3         CALLS   #1,PAS$WRITELN2
                                                     00V  11 00ACA 38$:    BRB     41$
                                          00000000G  EF   9F 00ACC 39$:    PUSHAB  SHIFT                                      ; 0403
                                                     04   DD 00AD2         PUSHL   #4
                                          00000000G  EF   9F 00AD4         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00ADA         CALLS   #3,PAS$WRITE_STRING
                                          FFFFC072   EF   9F 00AE1         PUSHAB  C.ABY
                                                     2C   DD 00AE7         PUSHL   #44
                                          00000000G  EF   9F 00AE9         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00AEF         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00AF6         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            01   FB 00AFC         CALLS   #1,PAS$WRITELN2
                                                     00V  11 00B03         BRB     41$
                                                             00B05 40$:
                         00v000000000G  EF            00   E1 00B05 41$:    BBC     #0,WAIT_HELP,44$                           ; 0411
                         00v000000000G  EF            00   E0 00B0D         BBS     #0,AUTO_TUNE,44$
                                          00004140   8F   DF 00B15         PUSHAF  #^F3.0                                     ; 0417
                            00000000G  EF            01   FB 00B1B         CALLS   #1,LIB$WAIT
                                                          04 00B22 44$:    RET                                                ; 0419

; Routine Size: 2851 bytes,    Routine Base: $CODE + 03E9F

                                                             00000 WRITE_QUESTION:                                            ; 0464
                                                        0000 00000         .WORD   ^M<>
                                       5E            04   C2 00002         SUBL2   #4,SP
                         3C            0B 00000000G  EF   CF 00005         CASEL   QTAB_OFFSET,#11,#60                        ; 0468
                                                   0000V     0000D         .DISPL  93$
                                                   0000V     0000F         .DISPL  96$
                                                   0000V     00011         .DISPL  97$
                                                   0000V     00013         .DISPL  94$
                                                   0000V     00015         .DISPL  95$
                                                   007A      00017         .DISPL  122
                                                   007A      00019         .DISPL  122
                                                   007A      0001B         .DISPL  122
```

```
             0000V       0001D            .DISPL  73$
             0000V       0001F            .DISPL  74$
             0000V       00021            .DISPL  75$
             0000V       00023            .DISPL  78$
             0000V       00025            .DISPL  65$
             0000V       00027            .DISPL  77$
             0000V       00029            .DISPL  92$
             0000V       0002B            .DISPL  48$
             0000V       0002D            .DISPL  49$
             0000V       0002F            .DISPL  43$
             0000V       00031            .DISPL  37$
             0000V       00033            .DISPL  44$
             0000V       00035            .DISPL  25$
             0000V       00037            .DISPL  76$
             0000V       00039            .DISPL  99$
             0000V       0003B            .DISPL  69$
             0000V       0003D            .DISPL  6$
             0000V       0003F            .DISPL  7$
             0000V       00041            .DISPL  83$
             0000V       00043            .DISPL  87$
             0000V       00045            .DISPL  101$
             0000V       00047            .DISPL  108$
             0000V       00049            .DISPL  27$
             0000V       0004B            .DISPL  26$
             0000V       0004D            .DISPL  91$
             0000V       0004F            .DISPL  18$
             0000V       00051            .DISPL  19$
             007A        00053            .DISPL  122
             0000V       00055            .DISPL  134$
             0000V       00057            .DISPL  51$
             0000V       00059            .DISPL  1$
             0000V       0005B            .DISPL  2$
             0000V       0005D            .DISPL  34$
             0000V       0005F            .DISPL  11$
             0000V       00061            .DISPL  12$
             0000V       00063            .DISPL  80$
             0000V       00065            .DISPL  98$
             0000V       00067            .DISPL  61$
             0000V       00069            .DISPL  147$
             0000V       0006B            .DISPL  109$
             007A        0006D            .DISPL  122
             0000V       0006F            .DISPL  100$
             0000V       00071            .DISPL  50$
             0000V       00073            .DISPL  79$
             0000V       00075            .DISPL  33$
             0000V       00077            .DISPL  102$
             0000V       00079            .DISPL  32$
             0000V       0007B            .DISPL  20$
             0000V       0007D            .DISPL  142$
             0000V       0007F            .DISPL  13$
             0000V       00081            .DISPL  14$
             0000V       00083            .DISPL  116$
             0000V       00085            .DISPL  154$
             0000V   31  00087            BRW     168$
00000000G    EF      9F  0008A  1$:       PUSHAB  SHIFT                                  ; 0472
             04      DD  00090            PUSHL   #4
00000000G    EF      9F  00092            PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF                 03    FB 00098          CALLS    #3,PAS$WRITE_STRING
               FFFFBFBD       EF    9F 0009F          PUSHAB   C.ABZ
                              2F    DD 000A5          PUSHL    #47
               00000000G      EF    9F 000A7          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 000AD          CALLS    #3,PAS$WRITE_STRING
                           0000V    31 000B4          BRW      169$
               00000000G      EF    9F 000B7 2$:      PUSHAB   SHIFT                                   ; 0479
                              04    DD 000BD          PUSHL    #4
               00000000G      EF    9F 000BF          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 000C5          CALLS    #3,PAS$WRITE_STRING
               FFFFBFC0       EF    9F 000CC          PUSHAB   C.ACA
                              21    DD 000D2          PUSHL    #33
               00000000G      EF    9F 000D4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 000DA          CALLS    #3,PAS$WRITE_STRING
               00000014G      EF    9F 000E1          PUSHAB   IDATA+20
00000000G  EF                 01    FB 000E7          CALLS    #1,NUM_LEN
                              50    DD 000EE          PUSHL    R0
               00000014G      EF    DD 000F0          PUSHL    IDATA+20
               00000000G      EF    9F 000F6          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 000FC          CALLS    #3,PAS$WRITE_INTEGER
               FFFFBFAD       EF    9F 00103          PUSHAB   C.ACB
                              08    DD 00109          PUSHL    #8
               00000000G      EF    9F 0010B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 00111          CALLS    #3,PAS$WRITE_STRING
               00000000G      EF    9F 00118          PUSHAB   DEF
00000000G  EF                 01    FB 0011E          CALLS    #1,NUM_LEN
                              50    DD 00125          PUSHL    R0
               00000000G      EF    DD 00127          PUSHL    DEF
               00000000G      EF    9F 0012D          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 00133          CALLS    #3,PAS$WRITE_INTEGER
                              01    DD 0013A          PUSHL    #1
           7E          5D     8F    9A 0013C          MOVZBL   #93,-(SP)
               00000000G      EF    9F 00140          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 00146          CALLS    #3,PAS$WRITE_CHAR
               00000014G      EF    9F 0014D          PUSHAB   IDATA+20                                ; 0483
00000000G  EF                 01    FB 00153          CALLS    #1,NUM_LEN
           5C                 50    D0 0015A          MOVL     R0,R12
               00000000G      EF    9F 0015D          PUSHAB   DEF
00000000G  EF                 01    FB 00163          CALLS    #1,NUM_LEN
           50               604C    9E 0016A          MOVAB    (R0)[RT2],R0
           03                 50    D1 0016E          CMPL     R0,#3
                             00V    14 00171          BGTR     4$
               FFFFBF45       EF    9F 00173          PUSHAB   C.ACC                                   ; 0485
                              03    DD 00179          PUSHL    #3
               00000000G      EF    9F 0017B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 00181          CALLS    #3,PAS$WRITE_STRING
                           0000V    31 00188          BRW      169$
               FFFFBF31       EF    9F 0018B 4$:      PUSHAB   C.ACD                                   ; 0489
                              03    DD 00191          PUSHL    #3
               00000000G      EF    9F 00193          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 00199          CALLS    #3,PAS$WRITE_STRING
                           0000V    31 001A0          BRW      169$
               00000000G      EF    9F 001A3 6$:      PUSHAB   SHIFT                                   ; 0497
                              04    DD 001A9          PUSHL    #4
               00000000G      EF    9F 001AB          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                 03    FB 001B1          CALLS    #3,PAS$WRITE_STRING
               FFFFBF08       EF    9F 001B8          PUSHAB   C.ACE
```

```
                             2F  DD 001BE       PUSHL   #47
               00000000G     EF  9F 001C0       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001C6       CALLS   #3,PAS$WRITE_STRING
                          0000V  31 001CD       BRW     169$
               00000000G     EF  9F 001D0 7$:   PUSHAB  SHIFT                                ; 0506
                             04  DD 001D6       PUSHL   #4
               00000000G     EF  9F 001D8       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001DE       CALLS   #3,PAS$WRITE_STRING
                FFFFBF08     EF  9F 001E5       PUSHAB  C.ACF
                             21  DD 001EB       PUSHL   #33
               00000000G     EF  9F 001ED       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001F3       CALLS   #3,PAS$WRITE_STRING
               00000014G     EF  9F 001FA       PUSHAB  IDATA+20
00000000G  EF                01  FB 00200       CALLS   #1,NUM_LEN
                             50  DD 00207       PUSHL   R0
               00000014G     EF  DD 00209       PUSHL   IDATA+20
               00000000G     EF  9F 0020F       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00215       CALLS   #3,PAS$WRITE_INTEGER
                FFFFBEF8     EF  9F 0021C       PUSHAB  C.ACG
                             08  DD 00222       PUSHL   #8
               00000000G     EF  9F 00224       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0022A       CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 00231       PUSHAB  DEF
00000000G  EF                01  FB 00237       CALLS   #1,NUM_LEN
                             50  DD 0023E       PUSHL   R0
               00000000G     EF  DD 00240       PUSHL   DEF
               00000000G     EF  9F 00246       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0024C       CALLS   #3,PAS$WRITE_INTEGER
                             01  DD 00253       PUSHL   #1
           7E           5D   8F  9A 00255       MOVZBL  #93,-(SP)
               00000000G     EF  9F 00259       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0025F       CALLS   #3,PAS$WRITE_CHAR
               00000014G     EF  9F 00266       PUSHAB  IDATA+20                             ; 0510
00000000G  EF                01  FB 0026C       CALLS   #1,NUM_LEN
           5C                50  D0 00273       MOVL    R0,R12
               00000000G     EF  9F 00276       PUSHAB  DEF
00000000G  EF                01  FB 0027C       CALLS   #1,NUM_LEN
           50               604C  9E 00283       MOVAB   (R0)[R12],R0
           03                50  D1 00287       CMPL    R0,#3
                            00V  14 0028A       BGTR    9$
                FFFFBE90     EF  9F 0028C       PUSHAB  C.ACH                                ; 0512
                             03  DD 00292       PUSHL   #3
               00000000G     EF  9F 00294       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0029A       CALLS   #3,PAS$WRITE_STRING
                          0000V  31 002A1       BRW     169$
                FFFFBE7C     EF  9F 002A4 9$:   PUSHAB  C.ACI                                ; 0516
                             03  DD 002AA       PUSHL   #3
               00000000G     EF  9F 002AC       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 002B2       CALLS   #3,PAS$WRITE_STRING
                          0000V  31 002B9       BRW     169$
               00000000G     EF  9F 002BC 11$:  PUSHAB  SHIFT                                ; 0522
                             04  DD 002C2       PUSHL   #4
               00000000G     EF  9F 002C4       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 002CA       CALLS   #3,PAS$WRITE_STRING
                FFFFBE53     EF  9F 002D1       PUSHAB  C.ACJ
                             0E  DD 002D7       PUSHL   #14
               00000000G     EF  9F 002D9       PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF                03  FB 002DF          CALLS   #3,PAS$WRITE_STRING
                             03  DD 002E6          PUSHL   #3
                  00000084G  EF  DD 002E8          PUSHL   IDATA+132
                  00000000G  EF  9F 002EE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 002F4          CALLS   #3,PAS$WRITE_INTEGER
                  FFFFBE39   EF  9F 002FB          PUSHAB  C.ACK
                             0B  DD 00301          PUSHL   #11
                  00000000G  EF  9F 00303          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00309          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 00310          PUSHAB  MAX_KEY_SIZE
00000000G  EF                01  FB 00316          CALLS   #1,NUM_LEN
                             50  DD 0031D          PUSHL   R0
                  00000000G  EF  DD 0031F          PUSHL   MAX_KEY_SIZE
                  00000000G  EF  9F 00325          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0032B          CALLS   #3,PAS$WRITE_INTEGER
                  FFFFBE0E   EF  9F 00332          PUSHAB  C.ACL
                             07  DD 00338          PUSHL   #7
                  00000000G  EF  9F 0033A          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00340          CALLS   #3,PAS$WRITE_STRING
                         0000V   31 00347          BRW     169$
                  00000000G  EF  9F 0034A  12$:    PUSHAB  SHIFT                                            ; 0529
                             04  DD 00350          PUSHL   #4
                  00000000G  EF  9F 00352          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00358          CALLS   #3,PAS$WRITE_STRING
                  FFFFBDE9   EF  9F 0035F          PUSHAB  C.ACM
                             0F  DD 00365          PUSHL   #15
                  00000000G  EF  9F 00367          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0036D          CALLS   #3,PAS$WRITE_STRING
                             03  DD 00374          PUSHL   #3
                  00000084G  EF  DD 00376          PUSHL   IDATA+132
                  00000000G  EF  9F 0037C          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00382          CALLS   #3,PAS$WRITE_INTEGER
                  FFFFBDCF   EF  9F 00389          PUSHAB  C.ACN
                             09  DD 0038F          PUSHL   #9
                  00000000G  EF  9F 00391          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00397          CALLS   #3,PAS$WRITE_STRING
                  00000014G  EF  9F 0039E          PUSHAB  IDATA+20
00000000G  EF                01  FB 003A4          CALLS   #1,NUM_LEN
                             50  DD 003AB          PUSHL   R0
                  00000014G  EF  DD 003AD          PUSHL   IDATA+20
                  00000000G  EF  9F 003B3          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 003B9          CALLS   #3,PAS$WRITE_INTEGER
                             01  DD 003C0          PUSHL   #1
                             2D  DD 003C2          PUSHL   #45
                  00000000G  EF  9F 003C4          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 003CA          CALLS   #3,PAS$WRITE_CHAR
                  00000000G  EF  9F 003D1          PUSHAB  MAX_KEY_SIZE
00000000G  EF                01  FB 003D7          CALLS   #1,NUM_LEN
                             50  DD 003DE          PUSHL   R0
                  00000000G  EF  DD 003E0          PUSHL   MAX_KEY_SIZE
                  00000000G  EF  9F 003E6          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 003EC          CALLS   #3,PAS$WRITE_INTEGER
                  FFFFBD6F   EF  9F 003F3          PUSHAB  C.ACO
                             02  DD 003F9          PUSHL   #2
                  00000000G  EF  9F 003FB          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00401          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 00408          PUSHAB  MAX_KEY_SIZE
```

```
00000000G  EF                01   FB 0040E          CALLS   #1,NUM_LEN
                             50   DD 00415          PUSHL   R0
                00000000G    EF   DD 00417          PUSHL   MAX_KEY_SIZE
                00000000G    EF   9F 0041D          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00423          CALLS   #3,PAS$WRITE_INTEGER
                FFFFBD3A     EF   9F 0042A          PUSHAB  C.ACP
                             04   DD 00430          PUSHL   #4
                00000000G    EF   9F 00432          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00438          CALLS   #3,PAS$WRITE_STRING
                          0000V   31 0043F          BRW     169$
                00000000G    EF   9F 00442 13$:     PUSHAB  SHIFT                                   ; 0539
                             04   DD 00448          PUSHL   #4
                00000000G    EF   9F 0044A          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00450          CALLS   #3,PAS$WRITE_STRING
                FFFFBD11     EF   9F 00457          PUSHAB  C.ACQ
                             1B   DD 0045D          PUSHL   #27
                00000000G    EF   9F 0045F          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00465          CALLS   #3,PAS$WRITE_STRING
                             05   DD 0046C          PUSHL   #5
                00000000G    EF   DD 0046E          PUSHL   CUR_MAX_REC
                00000000G    EF   9F 00474          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 0047A          CALLS   #3,PAS$WRITE_INTEGER
                FFFFBD03     EF   9F 00481          PUSHAB  C.ACR
                             07   DD 00487          PUSHL   #7
                00000000G    EF   9F 00489          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 0048F          CALLS   #3,PAS$WRITE_STRING
                          0000V   31 00496          BRW     169$
                00000000G    EF   9F 00499 14$:     PUSHAB  SHIFT                                   ; 0548
                             04   DD 0049F          PUSHL   #4
                00000000G    EF   9F 004A1          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 004A7          CALLS   #3,PAS$WRITE_STRING
                FFFFBCDE     EF   9F 004AE          PUSHAB  C.ACS
                             1A   DD 004B4          PUSHL   #26
                00000000G    EF   9F 004B6          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 004BC          CALLS   #3,PAS$WRITE_STRING
                00000014G    EF   9F 004C3          PUSHAB  IDATA+20
00000000G  EF                01   FB 004C9          CALLS   #1,NUM_LEN
                             50   DD 004D0          PUSHL   R0
                00000014G    EF   DD 004D2          PUSHL   IDATA+20
                00000000G    EF   9F 004D8          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 004DE          CALLS   #3,PAS$WRITE_INTEGER
                             01   DD 004E5          PUSHL   #1
                             2D   DD 004E7          PUSHL   #45
                00000000G    EF   9F 004E9          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 004EF          CALLS   #3,PAS$WRITE_CHAR
                             05   DD 004F6          PUSHL   #5
                00000000G    EF   DD 004F8          PUSHL   CUR_MAX_REC
                00000000G    EF   9F 004FE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00504          CALLS   #3,PAS$WRITE_INTEGER
                FFFFBC9D     EF   9F 0050B          PUSHAB  C.ACT
                             07   DD 00511          PUSHL   #7
                00000000G    EF   9F 00513          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03   FB 00519          CALLS   #3,PAS$WRITE_STRING
                00000014G    EF   9F 00520          PUSHAB  IDATA+20                                ; 0552
00000000G  EF                01   FB 00526          CALLS   #1,NUM_LEN
           03                50   D1 0052D          CMPL    R0,#3
                            00V   18 00530          BGEQ    16$
```

```
                       FFFFBC7E  EF  9F 00532        PUSHAB  C.ACU                         ; 0554
                                 03  DD 00538        PUSHL   #3
                      00000000G  EF  9F 0053A        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00540        CALLS   #3,PAS$WRITE_STRING
                             0000V   31 00547        BRW     169$
                       FFFFBC6A  EF  9F 0054A  16$:  PUSHAB  C.ACV                         ; 0558
                                 03  DD 00550        PUSHL   #3
                      00000000G  EF  9F 00552        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00558        CALLS   #3,PAS$WRITE_STRING
                             0000V   31 0055F        BRW     169$
                      00000000G  EF  9F 00562  18$:  PUSHAB  SHIFT                         ; 0564
                                 04  DD 00568        PUSHL   #4
                      00000000G  EF  9F 0056A        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00570        CALLS   #3,PAS$WRITE_STRING
                       FFFFBC41  EF  9F 00577        PUSHAB  C.ACW
                                 0E  DD 0057D        PUSHL   #14
                      00000000G  EF  9F 0057F        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00585        CALLS   #3,PAS$WRITE_STRING
                                 03  DD 0058C        PUSHL   #3
                      00000084G  EF  DD 0058E        PUSHL   IDATA+132
                      00000000G  EF  9F 00594        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 0059A        CALLS   #3,PAS$WRITE_INTEGER
                       FFFFBC27  EF  9F 005A1        PUSHAB  C.ACX
                                 1C  DD 005A7        PUSHL   #28
                      00000000G  EF  9F 005A9        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 005AF        CALLS   #3,PAS$WRITE_STRING
                             0000V   31 005B6        BRW     169$
                      00000000G  EF  9F 005B9  19$:  PUSHAB  SHIFT                         ; 0570
                                 04  DD 005BF        PUSHL   #4
                      00000000G  EF  9F 005C1        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 005C7        CALLS   #3,PAS$WRITE_STRING
                       FFFFBC16  EF  9F 005CE        PUSHAB  C.ACY
                                 0F  DD 005D4        PUSHL   #15
                      00000000G  EF  9F 005D6        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 005DC        CALLS   #3,PAS$WRITE_STRING
                                 03  DD 005E3        PUSHL   #3
                      00000084G  EF  DD 005E5        PUSHL   IDATA+132
                      00000000G  EF  9F 005EB        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 005F1        CALLS   #3,PAS$WRITE_INTEGER
                       FFFFBBFC  EF  9F 005F8        PUSHAB  C.ACZ
                                 1D  DD 005FE        PUSHL   #29
                      00000000G  EF  9F 00600        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00606        CALLS   #3,PAS$WRITE_STRING
                             0000V   31 0060D        BRW     169$
                       00000000  8F  DF 00610  20$:  PUSHAL  #0                            ; 0578
         00000000G  EF           01  FB 00616        CALLS   #1,CLEAR
     00V000000000G  EF           00  E0 0061D        BBS     #0,FULL_PROMPT,22$            ; 0583
     03  00000000G  EF           00  E0 00625        BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 0062D        BRW     23$
                      00000000G  EF  9F 00630  22$:  PUSHAB  SHIFT                         ; 0590
                                 04  DD 00636        PUSHL   #4
                      00000000G  EF  9F 00638        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 0063E        CALLS   #3,PAS$WRITE_STRING
                       FFFFBBCD  EF  9F 00645        PUSHAB  C.ADA
                                 02  DD 0064B        PUSHL   #2
                      00000000G  EF  9F 0064D        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03  FB 00653        CALLS   #3,PAS$WRITE_STRING
```

```
                      00000000G  EF    9F 0065A        PUSHAB  ANSI_REVERSE
                                 04    DD 00660        PUSHL   #4
                      00000000G  EF    9F 00662        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00668        CALLS   #3,PAS$WRITE_STRING
                      FFFFBBA5   EF    9F 0066F        PUSHAB  C.ADB
                                 18    DD 00675        PUSHL   #24
                      00000000G  EF    9F 00677        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 0067D        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 00684        PUSHAB  ANSI_RESET
                                 04    DD 0068A        PUSHL   #4
                      00000000G  EF    9F 0068C        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00692        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 00699        PUSHAB  CRLF
                                 02    DD 0069F        PUSHL   #2
                      00000000G  EF    9F 006A1        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 006A7        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 006AE        PUSHAB  CRLF_SHIFT
                                 06    DD 006B4        PUSHL   #6
                      00000000G  EF    9F 006B6        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 006BC        CALLS   #3,PAS$WRITE_STRING
                      FFFFBB69   EF    9F 006C3        PUSHAB  C.ADC
                                 3A    DD 006C9        PUSHL   #58
                      00000000G  EF    9F 006CB        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 006D1        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 006D8        PUSHAB  CRLF_SHIFT
                                 06    DD 006DE        PUSHL   #6
                      00000000G  EF    9F 006E0        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 006E6        CALLS   #3,PAS$WRITE_STRING
                      FFFFBB7B   EF    9F 006ED        PUSHAB  C.ADD
                                 34    DD 006F3        PUSHL   #52
                      00000000G  EF    9F 006F5        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 006FB        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 00702        PUSHAB  CRLF_SHIFT
                                 06    DD 00708        PUSHL   #6
                      00000000G  EF    9F 0070A        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00710        CALLS   #3,PAS$WRITE_STRING
                      FFFFBB85   EF    9F 00717        PUSHAB  C.ADE
                                 3A    DD 0071D        PUSHL   #58
                      00000000G  EF    9F 0071F        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00725        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 0072C        PUSHAB  CRLF_SHIFT
                                 06    DD 00732        PUSHL   #6
                      00000000G  EF    9F 00734        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 0073A        CALLS   #3,PAS$WRITE_STRING
                      FFFFBB97   EF    9F 00741        PUSHAB  C.ADF
                      00000040   8F    DD 00747        PUSHL   #64
                      00000000G  EF    9F 0074D        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00753        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 0075A        PUSHAB  CRLF_SHIFT
                                 06    DD 00760        PUSHL   #6
                      00000000G  EF    9F 00762        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 00768        CALLS   #3,PAS$WRITE_STRING
                      FFFFBBA9   EF    9F 0076F        PUSHAB  C.ADG
                                 34    DD 00775        PUSHL   #52
                      00000000G  EF    9F 00777        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 0077D        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF    9F 00784        PUSHAB  CRLF_SHIFT
```

```
                                06    DD 0078A           PUSHL    #6
                   00000000G    EF    9F 0078C           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 00792           CALLS    #3,PAS$WRITE_STRING
                   FFFFBBB3     EF    9F 00799           PUSHAB   C.ADH
                                38    DD 0079F           PUSHL    #56
                   00000000G    EF    9F 007A1           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 007A7           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 007AE           PUSHAB   CRLF_SHIFT
                                06    DD 007B4           PUSHL    #6
                   00000000G    EF    9F 007B6           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 007BC           CALLS    #3,PAS$WRITE_STRING
                   FFFFBBC1     EF    9F 007C3           PUSHAB   C.ADI
                                38    DD 007C9           PUSHL    #56
                   00000000G    EF    9F 007CB           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 007D1           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 007D8           PUSHAB   CRLF
                                02    DD 007DE           PUSHL    #2
                   00000000G    EF    9F 007E0           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 007E6           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 007ED           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                01    FB 007F3           CALLS    #1,PAS$WRITELN2
                                00V   11 007FA           BRB      24$
                   00000000G    EF    9F 007FC  23$:     PUSHAB   SHIFT                                  ; 0618
                                04    DD 00802           PUSHL    #4
                   00000000G    EF    9F 00804           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 0080A           CALLS    #3,PAS$WRITE_STRING
                   FFFFBBAB     EF    9F 00811           PUSHAB   C.ADJ
                                24    DD 00817           PUSHL    #36
                   00000000G    EF    9F 00819           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 0081F           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 00826           PUSHAB   CRLF_SHIFT
                                06    DD 0082C           PUSHL    #6
                   00000000G    EF    9F 0082E           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 00834           CALLS    #3,PAS$WRITE_STRING
                   FFFFBBA5     EF    9F 0083B           PUSHAB   C.ADK
                                1D    DD 00841           PUSHL    #29
                   00000000G    EF    9F 00843           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 00849           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 00850           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                01    FB 00856           CALLS    #1,PAS$WRITELN2
                   00000000G    EF    9F 0085D  24$:     PUSHAB   SHIFT                                  ; 0626
                                04    DD 00863           PUSHL    #4
                   00000000G    EF    9F 00865           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 0086B           CALLS    #3,PAS$WRITE_STRING
                   FFFFBB8E     EF    9F 00872           PUSHAB   C.ADL
                                1F    DD 00878           PUSHL    #31
                   00000000G    EF    9F 0087A           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 00880           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 00887           PUSHAB   ANSI_REVERSE
                                04    DD 0088D           PUSHL    #4
                   00000000G    EF    9F 0088F           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 00895           CALLS    #3,PAS$WRITE_STRING
                   FFFFBB84     EF    9F 0089C           PUSHAB   C.ADM
                                03    DD 008A2           PUSHL    #3
                   00000000G    EF    9F 008A4           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03    FB 008AA           CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF    9F 008B1           PUSHAB   ANSI_RESET
```

```
                                            04  DD 008B7          PUSHL   #4
                              00000000G     EF  9F 008B9          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 008BF          CALLS   #3,PAS$WRITE_STRING
                              FFFFBB5E      EF  9F 008C6          PUSHAB  C.ADN
                                            03  DD 008CC          PUSHL   #3
                              00000000G     EF  9F 008CE          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 008D4          CALLS   #3,PAS$WRITE_STRING
                                        0000V   31 008DB          BRW     169$
                              00000000G     EF  9F 008DE  25$:    PUSHAB  CRLF_SHIFT                                 ; 0633
                                            06  DD 008E4          PUSHL   #6
                              00000000G     EF  9F 008E6          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 008EC          CALLS   #3,PAS$WRITE_STRING
                              00000000G     EF  9F 008F3          PUSHAB  ANSI_REVERSE
                                            04  DD 008F9          PUSHL   #4
                              00000000G     EF  9F 008FB          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 00901          CALLS   #3,PAS$WRITE_STRING
                              00000000G     EF  9F 00908          PUSHAB  CONTINUE_TEXT
                                            2D  DD 0090E          PUSHL   #45
                              00000000G     EF  9F 00910          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 00916          CALLS   #3,PAS$WRITE_STRING
                              00000000G     EF  9F 0091D          PUSHAB  ANSI_RESET
                                            04  DD 00923          PUSHL   #4
                              00000000G     EF  9F 00925          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 0092B          CALLS   #3,PAS$WRITE_STRING
                                            01  DD 00932          PUSHL   #1
                                            09  DD 00934          PUSHL   #9
                              00000000G     EF  9F 00936          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 0093C          CALLS   #3,PAS$WRITE_CHAR
                                        0000V   31 00943          BRW     169$
                              00000000G     EF  9F 00946  26$:    PUSHAB  SHIFT                                      ; 0638
                                            04  DD 0094C          PUSHL   #4
                              00000000G     EF  9F 0094E          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 00954          CALLS   #3,PAS$WRITE_STRING
                              FFFFBACD      EF  9F 0095B          PUSHAB  C.ADO
                                            1C  DD 00961          PUSHL   #28
                              00000000G     EF  9F 00963          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 00969          CALLS   #3,PAS$WRITE_STRING
                              00000000G     EF  9F 00970          PUSHAB  CRLF_SHIFT
                                            06  DD 00976          PUSHL   #6
                              00000000G     EF  9F 00978          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 0097E          CALLS   #3,PAS$WRITE_STRING
                              FFFFBABF      EF  9F 00985          PUSHAB  C.ADP
                                            2B  DD 0098B          PUSHL   #43
                              00000000G     EF  9F 0098D          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 00993          CALLS   #3,PAS$WRITE_STRING
                                        0000V   31 0099A          BRW     169$
                              00000003      8F  DF 0099D  27$:    PUSHAL  #3                                         ; 0646
                 00000000G  EF              01  FB 009A3          CALLS   #1,CLEAR
               00V00000000G EF              00  E0 009AA          BBS     #0,FULL_PROMPT,29$                         ; 0651
               03 00000000G EF              00  E0 009B2          BBS     #0,TEMP_FULL_PROMPT,.+3
                                        0000V   31 009BA          BRW     30$
                              00000000G     EF  9F 009BD  29$:    PUSHAB  SHIFT                                      ; 0659
                                            04  DD 009C3          PUSHL   #4
                              00000000G     EF  9F 009C5          PUSHAB  PAS$FV_OUTPUT
                 00000000G  EF              03  FB 009CB          CALLS   #3,PAS$WRITE_STRING
                              FFFFBA9E      EF  9F 009D2          PUSHAB  C.ADQ
                                            02  DD 009D8          PUSHL   #2
```

```
                      00000000G  EF   9F  009DA        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  009E0        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  009E7        PUSHAB  ANSI_REVERSE
                                 04   DD  009ED        PUSHL   #4
                      00000000G  EF   9F  009EF        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  009F5        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  009FC        PUSHAB  EDF_HEADER
                                 13   DD  00A02        PUSHL   #19
                      00000000G  EF   9F  00A04        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A0A        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00A11        PUSHAB  ANSI_RESET
                                 04   DD  00A17        PUSHL   #4
                      00000000G  EF   9F  00A19        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A1F        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00A26        PUSHAB  CRLF
                                 02   DD  00A2C        PUSHL   #2
                      00000000G  EF   9F  00A2E        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A34        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00A3B        PUSHAB  CRLF_SHIFT
                                 06   DD  00A41        PUSHL   #6
                      00000000G  EF   9F  00A43        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A49        CALLS   #3,PAS$WRITE_STRING
                      FFFFBA24   EF   9F  00A50        PUSHAB  C.ADR
                                 37   DD  00A56        PUSHL   #55
                      00000000G  EF   9F  00A58        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A5E        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00A65        PUSHAB  CRLF_SHIFT
                                 06   DD  00A6B        PUSHL   #6
                      00000000G  EF   9F  00A6D        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A73        CALLS   #3,PAS$WRITE_STRING
                      FFFFBA32   EF   9F  00A7A        PUSHAB  C.ADS
                                 3A   DD  00A80        PUSHL   #58
                      00000000G  EF   9F  00A82        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A88        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00A8F        PUSHAB  CRLF_SHIFT
                                 06   DD  00A95        PUSHL   #6
                      00000000G  EF   9F  00A97        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00A9D        CALLS   #3,PAS$WRITE_STRING
                      FFFFBA44   EF   9F  00AA4        PUSHAB  C.ADT
                                 38   DD  00AAA        PUSHL   #56
                      00000000G  EF   9F  00AAC        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00AB2        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00AB9        PUSHAB  CRLF_SHIFT
                                 06   DD  00ABF        PUSHL   #6
                      00000000G  EF   9F  00AC1        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00AC7        CALLS   #3,PAS$WRITE_STRING
                      FFFFBA52   EF   9F  00ACE        PUSHAB  C.ADU
                                 2F   DD  00AD4        PUSHL   #47
                      00000000G  EF   9F  00AD6        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00ADC        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F  00AE3        PUSHAB  CRLF_SHIFT
                                 06   DD  00AE9        PUSHL   #6
                      00000000G  EF   9F  00AEB        PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                   03   FB  00AF1        CALLS   #3,PAS$WRITE_STRING
                      FFFFBA58   EF   9F  00AF8        PUSHAB  C.ADV
                                 30   DD  00AFE        PUSHL   #48
                      00000000G  EF   9F  00B00        PUSHAB  PAS$FV_OUTPUT
```

```
     00000000G  EF             03     FB 00B06            CALLS    #3,PASWRITE_STRING
                   00000000G   EF     9F 00B0D            PUSHAB   CRLF_SHIFT
                               06     DD 00B13            PUSHL    #6
                   00000000G   EF     9F 00B15            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B1B            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA5E    EF     9F 00B22            PUSHAB   C.ADW
                               37     DD 00B28            PUSHL    #55
                   00000000G   EF     9F 00B2A            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B30            CALLS    #3,PAS$WRITE_STRING
                   00G00000G   EF     9F 00B37            PUSHAB   CRLF_SHIFT
                               06     DD 00B3D            PUSHL    #6
                   00000000G   EF     9F 00B3F            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B45            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA6C    EF     9F 00B4C            PUSHAB   C.ADX
                               36     DD 00B52            PUSHL    #54
                   00000000G   EF     9F 00B54            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B5A            CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF     9F 00B61            PUSHAB   CRLF_SHIFT
                               06     DD 00B67            PUSHL    #6
                   00000000G   EF     9F 00B69            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B6F            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA7A    EF     9F 00B76            PUSHAB   C.ADY
                               29     DD 00B7C            PUSHL    #41
                   00000000G   EF     9F 00B7E            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B84            CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF     9F 00B8B            PUSHAB   CRLF_SHIFT
                               06     DD 00B91            PUSHL    #6
                   00000000G   EF     9F 00B93            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00B99            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA7C    EF     9F 00BA0            PUSHAB   C.ADZ
                               2A     DD 00BA6            PUSHL    #42
                   00000000G   EF     9F 00BA8            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00BAE            CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF     9F 00BB5            PUSHAB   CRLF
                               02     DD 00BBB            PUSHL    #2
                   00000000G   EF     9F 00BBD            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00BC3            CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF     9F 00BCA            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             01     FB 00BD0            CALLS    #1,PAS$WRITELN2
                               00V    11 00BD7            BRB      31$
                   00000000G   EF     9F 00BD9  30$:      PUSHAB   SHIFT                                          ; 0690
                               04     DD 00BDF            PUSHL    #4
                   00000000G   EF     9F 00BE1            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00BE7            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA5A    EF     9F 00BEE            PUSHAB   C.AEA
                               32     DD 00BF4            PUSHL    #50
                   00000000G   EF     9F 00BF6            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00BFC            CALLS    #3 PAS$WRITE_STRING
                   00000000G   EF     9F 00C03            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             01     FB 00C09            CALLS    #1,PAS$WRITELN2
                   00000000G   EF     9F 00C10  31$:      PUSHAB   SHIFT                                          ; 0696
                               04     DD 00C16            PUSHL    #4
                   00000000G   EF     9F 00C18            PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03     FB 00C1E            CALLS    #3,PAS$WRITE_STRING
                   FFFFBA57    EF     9F 00C25            PUSHAB   C.AEB
                               28     DD 00C2B            PUSHL    #40
                   00000000G   EF     9F 00C2D            PUSHAB   PAS$FV_OUTPUT
```

```
 00000000G  EF              03  FB 00C33           CALLS   #3,PAS$WRITE_STRING
                         0000V  31 00C3A           BRW     169$
             00000000G      EF  9F 00C3D 32$:      PUSHAB  SHIFT                          ; 0706
                            04  DD 00C43           PUSHL   #4
             00000000G      EF  9F 00C45           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00C4B           CALLS   #3,PAS$WRITE_STRING
             FFFFBA52       EF  9F 00C52           PUSHAB  C.AEC
                            12  DD 00C58           PUSHL   #18
             00000000G      EF  9F 00C5A           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00C60           CALLS   #3,PAS$WRITE_STRING
             00000000G      EF  9F 00C67           PUSHAB  CRLF_SHIFT
                            06  DD 00C6D           PUSHL   #6
             00000000G      EF  9F 00C6F           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00C75           CALLS   #3,PAS$WRITE_STRING
             FFFFBA3C       EF  9F 00C7C           PUSHAB  C.AED
                            2F  DD 00C82           PUSHL   #47
             00000000G      EF  9F 00C84           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00C8A           CALLS   #3,PAS$WRITE_STRING
                         0000V  31 00C91           BRW     169$
             00000000G      EF  9F 00C94 33$:      PUSHAB  SHIFT                          ; 0715
                            04  DD 00C9A           PUSHL   #4
             00000000G      EF  9F 00C9C           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00CA2           CALLS   #3,PAS$WRITE_STRING
             FFFFBA3F       EF  9F 00CA9           PUSHAB  C.AEE
                            0C  DD 00CAF           PUSHL   #12
             00000000G      EF  9F 00CB1           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00CB7           CALLS   #3,PAS$WRITE_STRING
             00000000G      EF  9F 00CBE           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              01  FB 00CC4           CALLS   #1,PAS$WRITELN2
             00000000G      EF  9F 00CCB           PUSHAB  SHIFT                          ; 0716
                            04  DD 00CD1           PUSHL   #4
             00000000G      EF  9F 00CD3           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00CD9           CALLS   #3,PAS$WRITE_STRING
             FFFFBA14       EF  9F 00CE0           PUSHAB  C.AEF
                            2C  DD 00CE6           PUSHL   #44
             00000000G      EF  9F 00CE8           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00CEE           CALLS   #3,PAS$WRITE_STRING
                         0000V  31 00CF5           BRW     169$
             00000000G      EF  9F 00CF8 34$:      PUSHAB  SHIFT                          ; 0725
                            04  DD 00CFE           PUSHL   #4
             00000000G      EF  9F 00D00           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00D06           CALLS   #3,PAS$WRITE_STRING
             FFFFBA13       EF  9F 00D0D           PUSHAB  C.AEG
                            03  DD 00D13           PUSHL   #3
             00000000G      EF  9F 00D15           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00D1B           CALLS   #3,PAS$WRITE_STRING
                            03  DD 00D22           PUSHL   #3
             00000084G      EF  DD 00D24           PUSHL   IDATA+132
             00000000G      EF  9F 00D2A           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00D30           CALLS   #3,PAS$WRITE_INTEGER
             FFFFB9ED       EF  9F 00D37           PUSHAB  C.AEH
                            0B  DD 00D3D           PUSHL   #11
             00000000G      EF  9F 00D3F           PUSHAB  PAS$FV_OUTPUT
 00000000G  EF              03  FB 00D45           CALLS   #3,PAS$WRITE_STRING
00V00000013G  EF            00  E1 00D4C           BBC     #0,BDATA+19,36$                ; 0728
             FFFFB9DC       EF  9F 00D54           PUSHAB  C.AEI                          ; 0730
                            03  DD 00D5A           PUSHL   #3
                         00000000G   EF   9F 00D5C        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00D62        CALLS   #3,PAS$WRITE_STRING
                                     01   DD 00D69        PUSHL   #1
                         00000000G   EF   DD 00D6B        PUSHL   SEGMENT_NUMBER
                         00000000G   EF   9F 00D71        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00D77        CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB9B6    EF   9F 00D7E  36$:  PUSHAB  C.AEJ                                        ; 0732
                                     04   DD 00D84        PUSHL   #4
                         00000000G   EF   9F 00D86        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00D8C        CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF   9F 00D93        PUSHAB  MAX_KEY_POSITION
            00000000G   EF           01   FB 00D99        CALLS   #1,NUM_LEN
                                     50   DD 00DA0        PUSHL   R0
                         00000000G   EF   DD 00DA2        PUSHL   MAX_KEY_POSITION
                         00000000G   EF   9F 00DA8        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00DAE        CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB983    EF   9F 00DB5        PUSHAB  C.AEK
                                     07   DD 00DBB        PUSHL   #7
                         00000000G   EF   9F 00DBD        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00DC3        CALLS   #3,PAS$WRITE_STRING
                                 0000V    31 00DCA        BRW     169$
                         00000000G   EF   9F 00DCD  37$:  PUSHAB  SHIFT                                        ; 0741
                                     04   DD 00DD3        PUSHL   #4
                         00000000G   EF   9F 00DD5        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00DDB        CALLS   #3,PAS$WRITE_STRING
                         FFFFB95E    EF   9F 00DE2        PUSHAB  C.AEL
                                     31   DD 00DE8        PUSHL   #49
                         00000000G   EF   9F 00DEA        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00DF0        CALLS   #3,PAS$WRITE_STRING
                         00000000G   EF   9F 00DF7        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           01   FB 00DFD        CALLS   #1,PAS$WRITELN2
         00V00000000G   EF           00   E0 00E04        BBS     #0,OPTIMIZING,39$                            ; 0744
                         00000000G   EF   9F 00E0C        PUSHAB  SHIFT                                        ; 0746
                                     04   DD 00E12        PUSHL   #4
                         00000000G   EF   9F 00E14        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00E1A        CALLS   #3,PAS$WRITE_STRING
                         FFFFB953    EF   9F 00E21        PUSHAB  C.AEM
                                     07   DD 00E27        PUSHL   #7
                         00000000G   EF   9F 00E29        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00E2F        CALLS   #3,PAS$WRITE_STRING
                                   00V    11 00E36        BRB     40$
                         00000000G   EF   9F 00E38  39$:  PUSHAB  SHIFT                                        ; 0750
                                     04   DD 00E3E        PUSHL   #4
                         00000000G   EF   9F 00E40        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00E46        CALLS   #3,PAS$WRITE_STRING
                         FFFFB92F    EF   9F 00E4D        PUSHAB  C.AEN
                                     08   DD 00E53        PUSHL   #8
                         00000000G   EF   9F 00E55        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00E5B        CALLS   #3,PAS$WRITE_STRING
                         FFFFB922    EF   9F 00E62  40$:  PUSHAB  C.AEO                                        ; 0752
                                     18   DD 00E68        PUSHL   #24
                         00000000G   EF   9F 00E6A        PUSHAB  PAS$FV_OUTPUT
            00000000G   EF           03   FB 00E70        CALLS   #3,PAS$WRITE_STRING
         00V00000000G   EF           00   E0 00E77        BBS     #0,OPTIMIZING,42$                            ; 0754
                                     01   DD 00E7F        PUSHL   #1                                           ; 0756
                    7E   00000000G   EF   9A 00E81        MOVZBL  TAB,-(SP)
                         00000000G   EF   9F 00E88        PUSHAB  PAS$FV_OUTPUT
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00000000G  EF             03   FB 00E8E        CALLS   #3,PAS$WRITE_CHAR
              FFFFB907    EF   9F 00E95 42$:   PUSHAB  C.AEP                              ; 0758
                          0F   DD 00E9B        PUSHL   #15
              00000000G   EF   9F 00E9D        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00EA3        CALLS   #3,PAS$WRITE_STRING
                       0000V   31 00EAA        BRW     169$
              00000000G   EF   9F 00EAD 43$:   PUSHAB  SHIFT                              ; 0764
                          04   DD 00EB3        PUSHL   #4
              00000000G   EF   9F 00EB5        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00EBB        CALLS   #3,PAS$WRITE_STRING
              FFFFB8EA    EF   9F 00EC2        PUSHAB  C.AEQ
                          03   DD 00EC8        PUSHL   #3
              00000000G   EF   9F 00ECA        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00ED0        CALLS   #3,PAS$WRITE_STRING
                          03   DD 00ED7        PUSHL   #3
              00000084G   EF   DD 00ED9        PUSHL   IDATA+132
              00000000G   EF   9F 00EDF        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00EE5        CALLS   #3,PAS$WRITE_INTEGER
              FFFFB8C4    EF   9F 00EEC        PUSHAB  C.AER
                          22   DD 00EF2        PUSHL   #34
              00000000G   EF   9F 00EF4        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00EFA        CALLS   #3,PAS$WRITE_STRING
                       0000V   31 00F01        BRW     169$
              00000000G   EF   9F 00F04 44$:   PUSHAB  SHIFT                              ; 0771
                          04   DD 00F0A        PUSHL   #4
              00000000G   EF   9F 00F0C        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F12        CALLS   #3,PAS$WRITE_STRING
              FFFFB8BB    EF   9F 00F19        PUSHAB  C.AES
                          03   DD 00F1F        PUSHL   #3
              00000000G   EF   9F 00F21        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F27        CALLS   #3,PAS$WRITE_STRING
                          03   DD 00F2E        PUSHL   #3
              00000084G   EF   DD 00F30        PUSHL   IDATA+132
              00000000G   EF   9F 00F36        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F3C        CALLS   #3,PAS$WRITE_INTEGER
              FFFFB895    EF   9F 00F43        PUSHAB  C.AET
                          1D   DD 00F49        PUSHL   #29
              00000000G   EF   9F 00F4B        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F51        CALLS   #3,PAS$WRITE_STRING
              00000084G   EF   D5 00F58        TSTL    IDATA+132                          ; 0777
                         00V   12 00F5E        BNEQ    46$
              FFFFB898    EF   9F 00F60        PUSHAB  C.AEU                              ; 0779
                          06   DD 00F66        PUSHL   #6
              00000000G   EF   9F 00F68        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F6E        CALLS   #3,PAS$WRITE_STRING
                       0000V   31 00F75        BRW     169$
              FFFFB888    EF   9F 00F78 46$:   PUSHAB  C.AEV                              ; 0783
                          07   DD 00F7E        PUSHL   #7
              00000000G   EF   9F 00F80        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F86        CALLS   #3,PAS$WRITE_STRING
                       0000V   31 00F8D        BRW     169$
              00000000G   EF   9F 00F90 48$:   PUSHAB  SHIFT                              ; 0789
                          04   DD 00F96        PUSHL   #4
              00000000G   EF   9F 00F98        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00F9E        CALLS   #3,PAS$WRITE_STRING
              FFFFB863    EF   9F 00FA5        PUSHAB  C.AEW
                          03   DD 00FAB        PUSHL   #3
                         00000000G  EF   9F 00FAD          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 00FB3          CALLS   #3,PAS$WRITE_STRING
                                     03   DD 00FBA          PUSHL   #3
                         00000084G  EF   DD 00FBC          PUSHL   IDATA+132
                         00000000G  EF   9F 00FC2          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 00FC8          CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB83D   EF   9F 00FCF          PUSHAB  C.AEX
                                     25   DD 00FD5          PUSHL   #37
                         00000000G  EF   9F 00FD7          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 00FDD          CALLS   #3,PAS$WRITE_STRING
                                  0000V   31 00FE4          BRW     169$
                         00000000G  EF   9F 00FE7 49$:     PUSHAB  SHIFT                                    ; 0795
                                     04   DD 00FED          PUSHL   #4
                         00000000G  EF   9F 00FEF          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 00FF5          CALLS   #3,PAS$WRITE_STRING
                         FFFFB838   EF   9F 00FFC          PUSHAB  C.AEY
                                     27   DD 01002          PUSHL   #39
                         00000000G  EF   9F 01004          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 0100A          CALLS   #3,PAS$WRITE_STRING
                                  0000V   31 01011          BRW     169$
                         00000000G  EF   9F 01014 50$:     PUSHAB  SHIFT                                    ; 0800
                                     04   DD 0101A          PUSHL   #4
                         00000000G  EF   9F 0101C          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 01022          CALLS   #3,PAS$WRITE_STRING
                         FFFFB833   EF   9F 01029          PUSHAB  C.AEZ
                                     22   DD 0102F          PUSHL   #34
                         00000000G  EF   9F 01031          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 01037          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF   9F 0103E          PUSHAB  ANSI_REVERSE
                                     04   DD 01044          PUSHL   #4
                         00000000G  EF   9F 01046          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 0104C          CALLS   #3,PAS$WRITE_STRING
                         FFFFB82D   EF   9F 01053          PUSHAB  C.AFA
                                     03   DD 01059          PUSHL   #3
                         00000000G  EF   9F 0105B          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 01061          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF   9F 01068          PUSHAB  ANSI_RESET
                                     04   DD 0106E          PUSHL   #4
                         00000000G  EF   9F 01070          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 01076          CALLS   #3,PAS$WRITE_STRING
                         FFFFB807   EF   9F 0107D          PUSHAB  C.AFB
                                     03   DD 01083          PUSHL   #3
                         00000000G  EF   9F 01085          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 0108B          CALLS   #3,PAS$WRITE_STRING
                                  0000V   31 01092          BRW     169$
      00V00000000G  EF              00   E0 01095 51$:     BBS     #0,OPTIMIZING,53$                        ; 0807
                         00000000G  EF   9F 0109D          PUSHAB  SHIFT                                    ; 0809
                                     04   DD 010A3          PUSHL   #4
                         00000000G  EF   9F 010A5          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 010AB          CALLS   #3,PAS$WRITE_STRING
                         FFFFB7D6   EF   9F 010B2          PUSHAB  C.AFC
                                     2F   DD 010B8          PUSHL   #47
                         00000000G  EF   9F 010BA          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03   FB 010C0          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF   9F 010C7          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01   FB 010CD          CALLS   #1,PAS$WRITELN2
                                    00V   11 010D4          BRB     54$
                         00000000G  EF  9F 010D6 53$:   PUSHAB  SHIFT                              ; 0814
                                    04  DD 010DC        PUSHL   #4
                         00000000G  EF  9F 010DE        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 010E4        CALLS   #3,PAS$WRITE_STRING
                         FFFFB7CD   EF  9F 010EB        PUSHAB  C.AFD
                                    27  DD 010F1        PUSHL   #39
                         00000000G  EF  9F 010F3        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 010F9        CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 01100        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           01  FB 01106        CALLS   #1,PAS$WRITELN2
                         00000000G  EF  9F 0110D 54$:   PUSHAB  SHIFT                              ; 0816
                                    04  DD 01113        PUSHL   #4
                         00000000G  EF  9F 01115        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 0111B        CALLS   #3,PAS$WRITE_STRING
                         FFFFB7BE   EF  9F 01122        PUSHAB  C.AFE
                                    0D  DD 01128        PUSHL   #13
                         00000000G  EF  9F 0112A        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 01130        CALLS   #3,PAS$WRITE_STRING
                         FFFFB7B9   EF  9F 01137        PUSHAB  C.AFF
                                    0C  DD 0113D        PUSHL   #12
                         00000000G  EF  9F 0113F        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 01145        CALLS   #3,PAS$WRITE_STRING
          00V00000000G EF           00  E0 0114C        BBS     #0,OPTIMIZING,56$                  ; 0818
                         00000000G  EF  9F 01154        PUSHAB  ANSI_REVERSE                       ; 0820
                                    04  DD 0115A        PUSHL   #4
                         00000000G  EF  9F 0115C        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 01162        CALLS   #3,PAS$WRITE_STRING
                         FFFFB793   EF  9F 01169        PUSHAB  C.AFG
                                    03  DD 0116F        PUSHL   #3
                         00000000G  EF  9F 01171        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 01177        CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 0117E        PUSHAB  ANSI_RESET
                                    04  DD 01184        PUSHL   #4
                         00000000G  EF  9F 01186        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 0118C        CALLS   #3,PAS$WRITE_STRING
                         FFFFB76D   EF  9F 01193        PUSHAB  C.AFH
                                    03  DD 01199        PUSHL   #3
                         00000000G  EF  9F 0119B        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 011A1        CALLS   #3,PAS$WRITE_STRING
                                 0000V  31 011A8        BRW     169$
                                    01  DD 011AB 56$:   PUSHL   #1                                 ; 0826
                      7E      5B    8F  9A 011AD        MOVZBL  #91,-(SP)
                         00000000G  EF  9F 011B1        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 011B7        CALLS   #3,PAS$WRITE_CHAR
                         00000000G  EF  9F 011BE        PUSHAB  OLD_COUNT
             00000000G EF           01  FB 011C4        CALLS   #1,NUM_LEN
                                    50  DD 011CB        PUSHL   R0
                         00000000G  EF  DD 011CD        PUSHL   OLD_COUNT
                         00000000G  EF  9F 011D3        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 011D9        CALLS   #3,PAS$WRITE_INTEGER
                                    01  DD 011E0        PUSHL   #1
                      7E      5D    8F  9A 011E2        MOVZBL  #93,-(SP)
                         00000000G  EF  9F 011E6        PUSHAB  PAS$FV_OUTPUT
             00000000G EF           03  FB 011EC        CALLS   #3,PAS$WRITE_CHAR
                         00000000G  EF  9F 011F3        PUSHAB  OLD_COUNT                          ; 0828
             00000000G EF           01  FB 011F9        CALLS   #1,NUM_LEN
                      04            50  D1 01200        CMPL    R0,#4
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                                 00V  15 01203          BLEQ    58$
                     FFFFB6FF    EF   9F 01205          PUSHAB  C.AFI                                ; 0830
                                 03   DD 0120B          PUSHL   #3
                     00000000G   EF   9F 0120D          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 01213          CALLS   #3,PAS$WRITE_STRING
                               0000V  31 0121A          BRW     169$
                     FFFFB6EB    EF   9F 0121D  58$:    PUSHAB  C.AFJ                                ; 0834
                                 03   DD 01223          PUSHL   #3
                     00000000G   EF   9F 01225          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 0122B          CALLS   #3,PAS$WRITE_STRING
                               0000V  31 01232          BRW     169$
                     00000000G   EF   9F 01235  61$:    PUSHAB  SHIFT                                ; 0844
                                 04   DD 0123B          PUSHL   #4
                     00000000G   EF   9F 0123D          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 01243          CALLS   #3,PAS$WRITE_STRING
                     FFFFB6C2    EF   9F 0124A          PUSHAB  C.AFK
                                 26   DD 01250          PUSHL   #38
                     00000000G   EF   9F 01252          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 01258          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 0125F          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01   FB 01265          CALLS   #1,PAS$WRITELN2
   00V00000000G  EF              00   E0 0126C          BBS     #0,OPTIMIZING,63$                    ; 0846
                     00000000G   EF   9F 01274          PUSHAB  SHIFT                                ; 0848
                                 04   DD 0127A          PUSHL   #4
                     00000000G   EF   9F 0127C          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 01282          CALLS   #3,PAS$WRITE_STRING
                     FFFFB6AB    EF   9F 01289          PUSHAB  C.AFL
                                 19   DD 0128F          PUSHL   #25
                     00000000G   EF   9F 01291          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 01297          CALLS   #3,PAS$WRITE_STRING
                                 00V  11 0129E          BRB     64$
                     00000000G   EF   9F 012A0  63$:    PUSHAB  SHIFT                                ; 0852
                                 04   DD 012A6          PUSHL   #4
                     00000000G   EF   9F 012A8          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 012AE          CALLS   #3,PAS$WRITE_STRING
                     FFFFB69B    EF   9F 012B5          PUSHAB  C.AFM
                                 17   DD 012BB          PUSHL   #23
                     00000000G   EF   9F 012BD          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 012C3          CALLS   #3,PAS$WRITE_STRING
                     FFFFB69E    EF   9F 012CA  64$:    PUSHAB  C.AFN                                ; 0854
                                 12   DD 012D0          PUSHL   #18
                     00000000G   EF   9F 012D2          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 012D8          CALLS   #3,PAS$WRITE_STRING
                               0000V  31 012DF          BRW     169$
   00V00000000G  EF              00   E0 012E2  65$:    BBS     #0,OPTIMIZING,67$                    ; 0862
                     00000000G   EF   9F 012EA          PUSHAB  SHIFT                                ; 0864
                                 04   DD 012F0          PUSHL   #4
                     00000000G   EF   9F 012F2          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 012F8          CALLS   #3,PAS$WRITE_STRING
                     FFFFB67D    EF   9F 012FF          PUSHAB  C.AFO
                                 31   DD 01305          PUSHL   #49
                     00000000G   EF   9F 01307          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 0130D          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 01314          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01   FB 0131A          CALLS   #1,PAS$WRITELN2
                                 00V  11 01321          BRB     68$
                     00000000G   EF   9F 01323  67$:    PUSHAB  SHIFT                                ; 0869
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                                   04     DD 01329          PUSHL   #4
                      00000000G    EF     9F 0132B          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01331          CALLS   #3,PAS$WRITE_STRING
                      FFFFB678     EF     9F 01338          PUSHAB  C.AFP
                                   2F     DD 0133E          PUSHL   #47
                      00000000G    EF     9F 01340          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01346          CALLS   #3,PAS$WRITE_STRING
                      00000000G    EF     9F 0134D          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               01     FB 01353          CALLS   #1,PAS$WRITELN2
                      00000000G    EF     9F 0135A 68$:     PUSHAB  SHIFT                                          ; 0872
                                   04     DD 01360          PUSHL   #4
                      00000000G    EF     9F 01362          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01368          CALLS   #3,PAS$WRITE_STRING
                      FFFFB671     EF     9F 0136F          PUSHAB  C.AFQ
                                   28     DD 01375          PUSHL   #40
                      00000000G    EF     9F 01377          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 0137D          CALLS   #3,PAS$WRITE_STRING
                                 0000V    31 01384          BRW     169$
                      00000000G    EF     9F 01387 69$:     PUSHAB  SHIFT                                          ; 0881
                                   04     DD 0138D          PUSHL   #4
                      00000000G    EF     9F 0138F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01395          CALLS   #3,PAS$WRITE_STRING
                      FFFFB66C     EF     9F 0139C          PUSHAB  C.AFR
                                   2E     DD 013A2          PUSHL   #46
                      00000000G    EF     9F 013A4          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 013AA          CALLS   #3,PAS$WRITE_STRING
                      00000000G    EF     9F 013B1          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               01     FB 013B7          CALLS   #1,PAS$WRITELN2
  00V000000000G   EF               00     E0 013BE          BBS     #0,OPTIMIZING,71$                              ; 0884
                      00000000G    EF     9F 013C6          PUSHAB  SHIFT                                          ; 0886
                                   04     DD 013CC          PUSHL   #4
                      00000000G    EF     9F 013CE          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 013D4          CALLS   #3,PAS$WRITE_STRING
                      FFFFB65D     EF     9F 013DB          PUSHAB  C.AFS
                                   15     DD 013E1          PUSHL   #21
                      00000000G    EF     9F 013E3          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 013E9          CALLS   #3,PAS$WRITE_STRING
                                   00V    11 013F0          BRB     72$
                      00000000G    EF     9F 013F2 71$:     PUSHAB  SHIFT                                          ; 0890
                                   04     DD 013F8          PUSHL   #4
                      00000000G    EF     9F 013FA          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01400          CALLS   #3,PAS$WRITE_STRING
                      FFFFB649     EF     9F 01407          PUSHAB  C.AFT
                                   16     DD 0140D          PUSHL   #22
                      00000000G    EF     9F 0140F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01415          CALLS   #3,PAS$WRITE_STRING
                      FFFFB64C     EF     9F 0141C 72$:     PUSHAB  C.AFU                                          ; 0892
                                   11     DD 01422          PUSHL   #17
                      00000000G    EF     9F 01424          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 0142A          CALLS   #3,PAS$WRITE_STRING
                                 0000V    31 01431          BRW     169$
                      00000000G    EF     9F 01434 73$:     PUSHAB  SHIFT                                          ; 0898
                                   04     DD 0143A          PUSHL   #4
                      00000000G    EF     9F 0143C          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03     FB 01442          CALLS   #3,PAS$WRITE_STRING
                      FFFFB633     EF     9F 01449          PUSHAB  C.AFV
                                   2D     DD 0144F          PUSHL   #45
```

```
                        00000000G  EF    9F 01451          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 01457          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 0145E          BRW     169$
                        00000000G  EF    9F 01461  74$:    PUSHAB  SHIFT                                   ; 0903
                                   04    DD 01467          PUSHL   #4
                        00000000G  EF    9F 01469          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 0146F          CALLS   #3,PAS$WRITE_STRING
                        FFFFB636   EF    9F 01476          PUSHAB  C.AFW
                                   30    DD 0147C          PUSHL   #48
                        00000000G  EF    9F 0147E          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 01484          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 0148B          BRW     169$
                        00000000G  EF    9F 0148E  75$:    PUSHAB  SHIFT                                   ; 0908
                                   04    DD 01494          PUSHL   #4
                        00000000G  EF    9F 01496          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 0149C          CALLS   #3,PAS$WRITE_STRING
                        FFFFB639   EF    9F 014A3          PUSHAB  C.AFX
                                   2A    DD 014A9          PUSHL   #42
                        00000000G  EF    9F 014AB          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 014B1          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 014B8          BRW     169$
                        00000000G  EF    9F 014BB  76$:    PUSHAB  SHIFT                                   ; 0913
                                   04    DD 014C1          PUSHL   #4
                        00000000G  EF    9F 014C3          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 014C9          CALLS   #3,PAS$WRITE_STRING
                        FFFFB638   EF    9F 014D0          PUSHAB  C.AFY
                                   2F    DD 014D6          PUSHL   #47
                        00000000G  EF    9F 014D8          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 014DE          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 014E5          BRW     169$
                        00000000G  EF    9F 014E8  77$:    PUSHAB  SHIFT                                   ; 0918
                                   04    DD 014EE          PUSHL   #4
                        00000000G  EF    9F 014F0          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 014F6          CALLS   #3,PAS$WRITE_STRING
                        FFFFB63B   EF    9F 014FD          PUSHAB  C.AFZ
                                   2D    DD 01503          PUSHL   #45
                        00000000G  EF    9F 01505          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 0150B          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 01512          BRW     169$
                        00000000G  EF    9F 01515  78$:    PUSHAB  SHIFT                                   ; 0923
                                   04    DD 0151B          PUSHL   #4
                        00000000G  EF    9F 0151D          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 01523          CALLS   #3,PAS$WRITE_STRING
                        FFFFB63E   EF    9F 0152A          PUSHAB  C.AGA
                                   2D    DD 01530          PUSHL   #45
                        00000000G  EF    9F 01532          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 01538          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 0153F          PUSHAB  CRLF_SHIFT
                                   06    DD 01545          PUSHL   #6
                        00000000G  EF    9F 01547          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 0154D          CALLS   #3,PAS$WRITE_STRING
                        FFFFB644   EF    9F 01554          PUSHAB  C.AGB
                                   2E    DD 0155A          PUSHL   #46
                        00000000G  EF    9F 0155C          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03    FB 01562          CALLS   #3,PAS$WRITE_STRING
                               0000V     31 01569          BRW     169$
                        00000000G  EF    9F 0156C  79$:    PUSHAB  SHIFT                                   ; 0929
```

```
                                   04  DD 01572          PUSHL   #4
                      00000000G  EF  9F 01574          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 0157A          CALLS   #3,PAS$WRITE_STRING
                       FFFFB647  EF  9F 01581          PUSHAB  C.AGC
                                   20  DD 01587          PUSHL   #32
                      00000000G  EF  9F 01589          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 0158F          CALLS   #3,PAS$WRITE_STRING
                              0000V  31 01596          BRW     169$
                      00000000G  EF  9F 01599  80$:    PUSHAB  SHIFT                                        ; 0936
                                   04  DD 0159F          PUSHL   #4
                      00000000G  EF  9F 015A1          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 015A7          CALLS   #3,PAS$WRITE_STRING
                       FFFFB63A  EF  9F 015AE          PUSHAB  C.AGD
                                   03  DD 015B4          PUSHL   #3
                      00000000G  EF  9F 015B6          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 015BC          CALLS   #3,PAS$WRITE_STRING
                                   03  DD 015C3          PUSHL   #3
                      00000084G  EF  DD 015C5          PUSHL   IDATA+132
                      00000000G  EF  9F 015CB          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 015D1          CALLS   #3,PAS$WRITE_INTEGER
                       FFFFB614  EF  9F 015D8          PUSHAB  C.AGE
                                   09  DD 015DE          PUSHL   #9
                      00000000G  EF  9F 015E0          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 015E6          CALLS   #3,PAS$WRITE_STRING
00V00000013G  EF                   00  E1 015ED          BBC     #0,BDATA+19,82$                              ; 0939
                       FFFFB603  EF  9F 015F5          PUSHAB  C.AGF                                        ; 0941
                                   03  DD 015FB          PUSHL   #3
                      00000000G  EF  9F 015FD          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 01603          CALLS   #3,PAS$WRITE_STRING
                                   01  DD 0160A          PUSHL   #1
                      00000000G  EF  DD 0160C          PUSHL   SEGMENT_NUMBER
                      00000000G  EF  9F 01612          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 01618          CALLS   #3,PAS$WRITE_INTEGER
                       FFFFB5DD  EF  9F 0161F  82$:    PUSHAB  C.AGG                                        ; 0943
                                   02  DD 01625          PUSHL   #2
                      00000000G  EF  9F 01627          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 0162D          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01634          PUSHAB  MIN_KEY_SIZE
   00000000G  EF                   01  FB 0163A          CALLS   #1,NUM_LEN
                                   50  DD 01641          PUSHL   R0
                      00000000G  EF  DD 01643          PUSHL   MIN_KEY_SIZE
                      00000000G  EF  9F 01649          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 0164F          CALLS   #3,PAS$WRITE_INTEGER
                                   01  DD 01656          PUSHL   #1
                                   2D  DD 01658          PUSHL   #45
                      00000000G  EF  9F 0165A          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 01660          CALLS   #3,PAS$WRITE_CHAR
                      00000000G  EF  9F 01667          PUSHAB  MAX_KEY_SIZE
   00000000G  EF                   01  FB 0166D          CALLS   #1,NUM_LEN
                                   50  DD 01674          PUSHL   R0
                      00000000G  EF  DD 01676          PUSHL   MAX_KEY_SIZE
                      00000000G  EF  9F 0167C          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 01682          CALLS   #3,PAS$WRITE_INTEGER
                                   01  DD 01689          PUSHL   #1
                                   29  DD 0168B          PUSHL   #41
                      00000000G  EF  9F 0168D          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                   03  FB 01693          CALLS   #3,PAS$WRITE_CHAR
```

```
                    00000000G  EF     9F 0169A          PUSHAB  ANSI_REVERSE
                               04     DD 016A0          PUSHL   #4
                    00000000G  EF     9F 016A2          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 016A8          CALLS   #3,PAS$WRITE_STRING
                    FFFFB551   EF     9F 016AF          PUSHAB  C.AGH
                               03     DD 016B5          PUSHL   #3
                    00000000G  EF     9F 016B7          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 016BD          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF     9F 016C4          PUSHAB  ANSI_RESET
                               04     DD 016CA          PUSHL   #4
                    00000000G  EF     9F 016CC          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 016D2          CALLS   #3,PAS$WRITE_STRING
                    FFFFB52B   EF     9F 016D9          PUSHAB  C.AGI
                               03     DD 016DF          PUSHL   #3
                    00000000G  EF     9F 016E1          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 016E7          CALLS   #3,PAS$WRITE_STRING
                             0000V    31 016EE          BRW     169$
                    00000000G  EF     9F 016F1 83$:     PUSHAB  SHIFT                                            ; 0953
                               04     DD 016F7          PUSHL   #4
                    00000000G  EF     9F 016F9          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 016FF          CALLS   #3,PAS$WRITE_STRING
                    FFFFB502   EF     9F 01706          PUSHAB  C.AGJ
                               25     DD 0170C          PUSHL   #37
                    00000000G  EF     9F 0170E          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 01714          CALLS   #3,PAS$WRITE_STRING
                    00000098G  EF     D5 0171B          TSTL    IDATA+152                                        ; 0955
                              00V     12 01721          BNEQ    85$
                    FFFFB50D   EF     9F 01723          PUSHAB  C.AGK                                            ; 0957
                               14     DD 01729          PUSHL   #20
                    00000000G  EF     9F 0172B          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 01731          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF     9F 01738          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             01     FB 0173E          CALLS   #1,PAS$WRITELN2
                              00V     11 01745          BRB     86$
                    FFFFB4FD   EF     9F 01747 85$:     PUSHAB  C.AGL                                            ; 0961
                               14     DD 0174D          PUSHL   #20
                    00000000G  EF     9F 0174F          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 01755          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF     9F 0175C          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             01     FB 01762          CALLS   #1,PAS$WRITELN2
                    00000000G  EF     9F 01769 86$:     PUSHAB  SHIFT                                            ; 0963
                               04     DD 0176F          PUSHL   #4
                    00000000G  EF     9F 01771          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 01777          CALLS   #3,PAS$WRITE_STRING
                    FFFFB4DA   EF     9F 0177E          PUSHAB  C.AGM
                               1C     DD 01784          PUSHL   #28
                    00000000G  EF     9F 01786          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 0178C          CALLS   #3,PAS$WRITE_STRING
                               06     DD 01793          PUSHL   #6
                    00000000G  EF     DD 01795          PUSHL   BREAKPOINT_LEFT
                    00000000G  EF     9F 0179B          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 017A1          CALLS   #3,PAS$WRITE_INTEGER
                               06     DD 017A8          PUSHL   #6
                    00000000G  EF     DD 017AA          PUSHL   BREAKPOINT_MID
                    00000000G  EF     9F 017B0          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03     FB 017B6          CALLS   #3,PAS$WRITE_INTEGER
                               06     DD 017BD          PUSHL   #6
```

```
                         00000000G  EF  DD  017BF        PUSHL   BREAKPOINT_RIGHT
                         00000000G  EF  9F  017C5        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  017CB        CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB4A2   EF  9F  017D2        PUSHAB  C.AGN
                                    02  DD  017D8        PUSHL   #2
                         00000000G  EF  9F  017DA        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  017E0        CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F  017E7        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              01  FB  017ED        CALLS   #1,PAS$WRITELN2
                         00000000G  EF  9F  017F4        PUSHAB  SHIFT                                      ; 0967
                                    04  DD  017FA        PUSHL   #4
                         00000000G  EF  9F  017FC        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  01802        CALLS   #3,PAS$WRITE_STRING
                         FFFFB46F   EF  9F  01809        PUSHAB  C.AGO
                                    1E  DD  0180F        PUSHL   #30
                         00000000G  EF  9F  01811        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  01817        CALLS   #3,PAS$WRITE_STRING
                                    06  DD  0181E        PUSHL   #6
                         00000000G  EF  DD  01820        PUSHL   DEPTHPOINT_LEFT
                         00000000G  EF  9F  01826        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  0182C        CALLS   #3,PAS$WRITE_INTEGER
                                    06  DD  01833        PUSHL   #6
                         00000000G  EF  DD  01835        PUSHL   DEPTHPOINT_MID
                         00000000G  EF  9F  0183B        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  01841        CALLS   #3,PAS$WRITE_INTEGER
                                    06  DD  01848        PUSHL   #6
                         00000000G  EF  DD  0184A        PUSHL   DEPTHPOINT_RIGHT
                         00000000G  EF  9F  01850        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  01856        CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB439   EF  9F  0185D        PUSHAB  C.AGP
                                    02  DD  01863        PUSHL   #2
                         00000000G  EF  9F  01865        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  0186B        CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F  01872        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              01  FB  01878        CALLS   #1,PAS$WRITELN2
                         00000000G  EF  9F  0187F        PUSHAB  SHIFT                                      ; 0971
                                    04  DD  01885        PUSHL   #4
                         00000000G  EF  9F  01887        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  0188D        CALLS   #3,PAS$WRITE_STRING
                         FFFFB404   EF  9F  01894        PUSHAB  C.AGQ
                                    1F  DD  0189A        PUSHL   #31
                         00000000G  EF  9F  0189C        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  018A2        CALLS   #3,PAS$WRITE_STRING
                                    06  DD  018A9        PUSHL   #6
                         00000000G  EF  DD  018AB        PUSHL   NUMPOINT_LEFT
                         00000000G  EF  9F  018B1        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  018B7        CALLS   #3,PAS$WRITE_INTEGER
                                    06  DD  018BE        PUSHL   #6
                         00000000G  EF  DD  018C0        PUSHL   NUMPOINT_MID
                         00000000G  EF  9F  018C6        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  018CC        CALLS   #3,PAS$WRITE_INTEGER
                                    06  DD  018D3        PUSHL   #6
                         00000000G  EF  DD  018D5        PUSHL   NUMPOINT_RIGHT
                         00000000G  EF  9F  018DB        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03  FB  018E1        CALLS   #3,PAS$WRITE_INTEGER
                         FFFFB3D0   EF  9F  018E8        PUSHAB  C.AGR
                                    02  DD  018EE        PUSHL   #2
```

```
               00000000G  EF   9F 018F0      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 018F6      CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 018FD      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 01903      CALLS   #1,PAS$WRITELN2
               00000000G  EF   9F 0190A      PUSHAB  SHIFT                                ; 0975
                          04   DD 01910      PUSHL   #4
               00000000G  EF   9F 01912      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 01918      CALLS   #3,PAS$WRITE_STRING
               FFFFB39D   EF   9F 0191F      PUSHAB  C.AGS
                          22   DD 01925      PUSHL   #34
               00000000G  EF   9F 01927      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 0192D      CALLS   #3,PAS$WRITE_STRING
                          06   DD 01934      PUSHL   #6
               00000000G  EF   DD 01936      PUSHL   PAGEPOINT_LEFT
               00000000G  EF   9F 0193C      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 01942      CALLS   #3,PAS$WRITE_INTEGER
                          06   DD 01949      PUSHL   #6
               00000000G  EF   DD 0194B      PUSHL   PAGEPOINT_MID
               00000000G  EF   9F 01951      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 01957      CALLS   #3,PAS$WRITE_INTEGER
                          06   DD 0195E      PUSHL   #6
               00000000G  EF   DD 01960      PUSHL   PAGEPOINT_RIGHT
               00000000G  EF   9F 01966      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 0196C      CALLS   #3,PAS$WRITE_INTEGER
               FFFFB36B   EF   9F 01973      PUSHAB  C.AGT
                          02   DD 01979      PUSHL   #2
               00000000G  EF   9F 0197B      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 01981      CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 01988      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 0198E      CALLS   #1,PAS$WRITELN2
               00000000G  EF   9F 01995      PUSHAB  SHIFT                                ; 0979
                          04   DD 0199B      PUSHL   #4
               00000000G  EF   9F 0199D      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 019A3      CALLS   #3,PAS$WRITE_STRING
               FFFFB336   EF   9F 019AA      PUSHAB  C.AGU
                          23   DD 019B0      PUSHL   #35
               00000000G  EF   9F 019B2      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 019B8      CALLS   #3,PAS$WRITE_STRING
                          06   DD 019BF      PUSHL   #6
               00000000G  EF   DD 019C1      PUSHL   EXAMPOINT_LEFT
               00000000G  EF   9F 019C7      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 019CD      CALLS   #3,PAS$WRITE_INTEGER
                          06   DD 019D4      PUSHL   #6
               00000000G  EF   DD 019D6      PUSHL   EXAMPOINT_MID
               00000000G  EF   9F 019DC      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 019E2      CALLS   #3,PAS$WRITE_INTEGER
                          06   DD 019E9      PUSHL   #6
               00000000G  EF   DD 019EB      PUSHL   EXAMPOINT_RIGHT
               00000000G  EF   9F 019F1      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 019F7      CALLS   #3,PAS$WRITE_INTEGER
               FFFFB306   EF   9F 019FE      PUSHAB  C.AGV
                          02   DD 01A04      PUSHL   #2
               00000000G  EF   9F 01A06      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 01A0C      CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 01A13      PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 01A19      CALLS   #1,PAS$WRITELN2
               00000000G  EF   9F 01A20      PUSHAB  CRLF_SHIFT                           ; 0983
```

```
                                                06    DD 01A26          PUSHL   #6
                                  00000000G     EF    9F 01A28          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01A2E          CALLS   #3,PAS$WRITE_STRING
                                  FFFFB2D3      EF    9F 01A35          PUSHAB  C.AGW
                                                03    DD 01A3B          PUSHL   #3
                                  00000000G     EF    9F 01A3D          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01A43          CALLS   #3,PAS$WRITE_STRING
                                                03    DD 01A4A          PUSHL   #3
                                  00000084G     EF    DD 01A4C          PUSHL   IDATA+132
                                  00000000G     EF    9F 01A52          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01A58          CALLS   #3,PAS$WRITE_INTEGER
                                  FFFFB2AD      EF    9F 01A5F          PUSHAB  C.AGX
                                                0F    DD 01A65          PUSHL   #15
                                  00000000G     EF    9F 01A67          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01A6D          CALLS   #3,PAS$WRITE_STRING
                                  00000000G     EF    9F 01A74          PUSHAB  MIN_BUCKET
                     00000000G  EF              01    FB 01A7A          CALLS   #1,NUM_LEN
                                                50    DD 01A81          PUSHL   R0
                                  00000000G     EF    DD 01A83          PUSHL   MIN_BUCKET
                                  00000000G     EF    9F 01A89          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01A8F          CALLS   #3,PAS$WRITE_INTEGER
                                  FFFFB286      EF    9F 01A96          PUSHAB  C.AGY
                                                05    DD 01A9C          PUSHL   #5
                                  00000000G     EF    9F 01A9E          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01AA4          CALLS   #3,PAS$WRITE_STRING
                  50 00000000G  EF              19    C5 01AAB          MULL3   #25,QTAB_OFFSET,R0
     5C FFFFFEF2GEF40           20              00    EE 01AB3          EXTV    #0,#32,QTAB-270[R0],R12
                          FC    AD              5C    D0 01ABD          MOVL    R12,-4(FP)
                                        FC      AD    9F 01AC1          PUSHAB  -4(FP)
                     00000000G  EF              01    FB 01AC4          CALLS   #1,NUM_LEN
                                                50    DD 01ACB          PUSHL   R0
                                                5C    DD 01ACD          PUSHL   R12
                                  00000000G     EF    9F 01ACF          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01AD5          CALLS   #3,PAS$WRITE_INTEGER
                                  FFFFB248      EF    9F 01ADC          PUSHAB  C.AGZ
                                                04    DD 01AE2          PUSHL   #4
                                  00000000G     EF    9F 01AE4          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01AEA          CALLS   #3,PAS$WRITE_STRING
                                             0000V    31 01AF1          BRW     169$
                                  00000000G     EF    9F 01AF4 87$:     PUSHAB  SHIFT                                      ; 0996
                                                04    DD 01AFA          PUSHL   #4
                                  00000000G     EF    9F 01AFC          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01B02          CALLS   #3,PAS$WRITE_STRING
                                  FFFFB21F      EF    9F 01B09          PUSHAB  C.AHA
                                                1F    DD 01B0F          PUSHL   #31
                                  00000000G     EF    9F 01B11          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01B17          CALLS   #3,PAS$WRITE_STRING
                                  00000000G     EF    9F 01B1E          PUSHAB  CRLF_SHIFT
                                                06    DD 01B24          PUSHL   #6
                                  00000000G     EF    9F 01B26          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01B2C          CALLS   #3,PAS$WRITE_STRING
                                  FFFFB215      EF    9F 01B33          PUSHAB  C.AHB
                                                2A    DD 01B39          PUSHL   #42
                                  00000000G     EF    9F 01B3B          PUSHAB  PAS$FV_OUTPUT
                     00000000G  EF              03    FB 01B41          CALLS   #3,PAS$WRITE_STRING
                  50 00000000G  EF              19    C5 01B48          MULL3   #25,QTAB_OFFSET,R0                         ; 0999
     01 FFFFFEF2GEF40           20              00    EC 01B50          CMPV    #0,#32,QTAB-270[R0],#1
```

```
                                00V  12 01B5A          BNEQ    89$
                    FFFFB218     EF  9F 01B5C          PUSHAB  C.AHC                                   ; 1001
                                 08  DD 01B62          PUSHL   #8
                    00000000G    EF  9F 01B64          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01B6A          CALLS   #3,PAS$WRITE_STRING
                               0000V 31 01B71          BRW     169$
                    FFFFB208     EF  9F 01B74 89$:     PUSHAB  C.AHD                                   ; 1005
                                 09  DD 01B7A          PUSHL   #9
                    00000000G    EF  9F 01B7C          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01B82          CALLS   #3,PAS$WRITE_STRING
                               0000V 31 01B89          BRW     169$
                    00000000G    EF  9F 01B8C 91$:     PUSHAB  SHIFT                                   ; 1011
                                 04  DD 01B92          PUSHL   #4
                    00000000G    EF  9F 01B94          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01B9A          CALLS   #3,PAS$WRITE_STRING
                    FFFFB1E7     EF  9F 01BA1          PUSHAB  C.AHE
                                 03  DD 01BA7          PUSHL   #3
                    00000000G    EF  9F 01BA9          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01BAF          CALLS   #3,PAS$WRITE_STRING
                                 03  DD 01BB6          PUSHL   #3
                    00000084G    EF  DD 01BB8          PUSHL   IDATA+132
                    00000000G    EF  9F 01BBE          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01BC4          CALLS   #3,PAS$WRITE_INTEGER
                    FFFFB1C1     EF  9F 01BCB          PUSHAB  C.AHF
                                 23  DD 01BD1          PUSHL   #35
                    00000000G    EF  9F 01BD3          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01BD9          CALLS   #3,PAS$WRITE_STRING
                               0000V 31 01BE0          BRW     169$
                    00000000G    EF  9F 01BE3 92$:     PUSHAB  SHIFT                                   ; 1016
                                 04  DD 01BE9          PUSHL   #4
                    00000000G    EF  9F 01BEB          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01BF1          CALLS   #3,PAS$WRITE_STRING
                    FFFFB1B8     EF  9F 01BF8          PUSHAB  C.AHG
                                 2F  DD 01BFE          PUSHL   #47
                    00000000G    EF  9F 01C00          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01C06          CALLS   #3,PAS$WRITE_STRING
                               0000V 31 01C0D          BRW     169$
                    00000000G    EF  9F 01C10 93$:     PUSHAB  SHIFT                                   ; 1021
                                 04  DD 01C16          PUSHL   #4
                    00000000G    EF  9F 01C18          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01C1E          CALLS   #3,PAS$WRITE_STRING
                    FFFFB1BB     EF  9F 01C25          PUSHAB  C.AHH
                                 28  DD 01C2B          PUSHL   #40
                    00000000G    EF  9F 01C2D          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01C33          CALLS   #3,PAS$WRITE_STRING
                    00000000G    EF  9F 01C3A          PUSHAB  CRLF_SHIFT
                                 06  DD 01C40          PUSHL   #6
                    00000000G    EF  9F 01C42          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01C48          CALLS   #3,PAS$WRITE_STRING
                    FFFFB1B9     EF  9F 01C4F          PUSHAB  C.AHI
                                 02  DD 01C55          PUSHL   #2
                    00000000G    EF  9F 01C57          PUSHAB  PAS$FV_OUTPUT
     00000000G   EF              03  FB 01C5D          CALLS   #3,PAS$WRITE_STRING
                               0000V 31 01C64          BRW     169$
                    00000000G    EF  9F 01C67 94$:     PUSHAB  SHIFT                                   ; 1027
                                 04  DD 01C6D          PUSHL   #4
                    00000000G    EF  9F 01C6F          PUSHAB  PAS$FV_OUTPUT
```

```
 00000000G  EF            03  FB 01C75          CALLS   #3,PAS$WRITE_STRING
                FFFFB190  EF  9F 01C7C          PUSHAB  C.AHJ
                          2B  DD 01C82          PUSHL   #43
                00000000G EF  9F 01C84          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01C8A          CALLS   #3,PAS$WRITE_STRING
                00000000G EF  9F 01C91          PUSHAB  CRLF_SHIFT
                          06  DD 01C97          PUSHL   #6
                00000000G EF  9F 01C99          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01C9F          CALLS   #3,PAS$WRITE_STRING
                FFFFB192  EF  9F 01CA6          PUSHAB  C.AHK
                          02  DD 01CAC          PUSHL   #2
                00000000G EF  9F 01CAE          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01CB4          CALLS   #3,PAS$WRITE_STRING
                       0000V  31 01CBB          BRW     169$
                00000000G EF  9F 01CBE 95$:     PUSHAB  SHIFT                                          ; 1032
                          04  DD 01CC4          PUSHL   #4
                00000000G EF  9F 01CC6          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01CCC          CALLS   #3,PAS$WRITE_STRING
                FFFFB169  EF  9F 01CD3          PUSHAB  C.AHL
                          2A  DD 01CD9          PUSHL   #42
                00000000G EF  9F 01CDB          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01CE1          CALLS   #3,PAS$WRITE_STRING
                00000000G EF  9F 01CE8          PUSHAB  CRLF_SHIFT
                          06  DD 01CEE          PUSHL   #6
                00000000G EF  9F 01CF0          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01CF6          CALLS   #3,PAS$WRITE_STRING
                FFFFB169  EF  9F 01CFD          PUSHAB  C.AHM
                          02  DD 01D03          PUSHL   #2
                00000000G EF  9F 01D05          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D0B          CALLS   #3,PAS$WRITE_STRING
                       0000V  31 01D12          BRW     169$
                00000000G EF  9F 01D15 96$:     PUSHAB  SHIFT                                          ; 1038
                          04  DD 01D1B          PUSHL   #4
                00000000G EF  9F 01D1D          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D23          CALLS   #3,PAS$WRITE_STRING
                FFFFB13E  EF  9F 01D2A          PUSHAB  C.AHN
                          2E  DD 01D30          PUSHL   #46
                00000000G EF  9F 01D32          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D38          CALLS   #3,PAS$WRITE_STRING
                00000000G EF  9F 01D3F          PUSHAB  CRLF_SHIFT
                          06  DD 01D45          PUSHL   #6
                00000000G EF  9F 01D47          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D4D          CALLS   #3,PAS$WRITE_STRING
                FFFFB142  EF  9F 01D54          PUSHAB  C.AHO
                          02  DD 01D5A          PUSHL   #2
                00000000G EF  9F 01D5C          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D62          CALLS   #3,PAS$WRITE_STRING
                       0000V  31 01D69          BRW     169$
                00000000G EF  9F 01D6C 97$:     PUSHAB  SHIFT                                          ; 1044
                          04  DD 01D72          PUSHL   #4
                00000000G EF  9F 01D74          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D7A          CALLS   #3,PAS$WRITE_STRING
                FFFFB117  EF  9F 01D81          PUSHAB  C.AHP
                          03  DD 01D87          PUSHL   #3
                00000000G EF  9F 01D89          PUSHAB  PAS$FV OUTPUT
 00000000G  EF            03  FB 01D8F          CALLS   #3,PAS$WRITE_STRING
                          03  DD 01D96          PUSHL   #3
```

```
                    00000084G  EF    DD 01D98          PUSHL    IDATA+132
                    00000000G  EF    9F 01D9E          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01DA4          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFB0F1   EF    9F 01DAB          PUSHAB   C.AHQ
                               1A    DD 01DB1          PUSHL    #26
                    00000000G  EF    9F 01DB3          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01DB9          CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF    9F 01DC0          PUSHAB   CRLF_SHIFT
                               06    DD 01DC6          PUSHL    #6
                    00000000G  EF    9F 01DC8          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01DCE          CALLS    #3,PAS$WRITE_STRING
                    FFFFB0E1   EF    9F 01DD5          PUSHAB   C.AHR
                               02    DD 01DDB          PUSHL    #2
                    00000000G  EF    9F 01DDD          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01DE3          CALLS    #3,PAS$WRITE_STRING
                          0000V      31 01DEA          BRW      169$
                    00000000G  EF    9F 01DED  98$:    PUSHAB   SHIFT                                        ; 1052
                               04    DD 01DF3          PUSHL    #4
                    00000000G  EF    9F 01DF5          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01DFB          CALLS    #3,PAS$WRITE_STRING
                    FFFFB0B6   EF    9F 01E02          PUSHAB   C.AHS
                               2E    DD 01E08          PUSHL    #46
                    00000000G  EF    9F 01E0A          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E10          CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF    9F 01E17          PUSHAB   CRLF_SHIFT
                               06    DD 01E1D          PUSHL    #6
                    00000000G  EF    9F 01E1F          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E25          CALLS    #3,PAS$WRITE_STRING
                    FFFFB0BC   EF    9F 01E2C          PUSHAB   C.AHT
                               03    DD 01E32          PUSHL    #3
                    00000000G  EF    9F 01E34          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E3A          CALLS    #3,PAS$WRITE_STRING
                               03    DD 01E41          PUSHL    #3
                    00000084G  EF    DD 01E43          PUSHL    IDATA+132
                    00000000G  EF    9F 01E49          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E4F          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFB096   EF    9F 01E56          PUSHAB   C.AHU
                               1D    DD 01E5C          PUSHL    #29
                    00000000G  EF    9F 01E5E          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E64          CALLS    #3,PAS$WRITE_STRING
                          0000V      31 01E6B          BRW      169$
                    00000000G  EF    9F 01E6E  99$:    PUSHAB   SHIFT                                        ; 1060
                               04    DD 01E74          PUSHL    #4
                    00000000G  EF    9F 01E76          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E7C          CALLS    #3,PAS$WRITE_STRING
                    FFFFB089   EF    9F 01E83          PUSHAB   C.AHV
                               13    DD 01E89          PUSHL    #19
                    00000000G  EF    9F 01E8B          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01E91          CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF    9F 01E98          PUSHAB   LOW_KEY
     00000000G  EF             01    FB 01E9E          CALLS    #1,NUM_LEN
                               50    DD 01EA5          PUSHL    R0
                    00000000G  EF    DD 01EA7          PUSHL    LOW_KEY
                    00000000G  EF    9F 01EAD          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF             03    FB 01EB3          CALLS    #3,PAS$WRITE_INTEGER
                               01    DD 01EBA          PUSHL    #1
                               2D    DD 01EBC          PUSHL    #45
```

```
                                           00000000G EF   9F 01EBE          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01EC4          CALLS    #3,PAS$WRITE_CHAR
                                           00000000G EF   9F 01ECB          PUSHAB   HIGH_KEY
                             00000000G  EF           01   FB 01ED1          CALLS    #1,NUM_LEN
                                                     50   DD 01ED8          PUSHL    R0
                                           00000000G EF   DD 01EDA          PUSHL    HIGH_KEY
                                           00000000G EF   9F 01EE0          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01EE6          CALLS    #3,PAS$WRITE_INTEGER
                                           FFFFB033  EF   9F 01EED          PUSHAB   C.AHW
                                                     07   DD 01EF3          PUSHL    #7
                                           00000000G EF   9F 01EF5          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01EFB          CALLS    #3,PAS$WRITE_STRING
                                                  0000V   31 01F02          BRW      169$
                                           00000000G EF   9F 01F05 100$:    PUSHAB   SHIFT                                  ; 1068
                                                     04   DD 01F0B          PUSHL    #4
                                           00000000G EF   9F 01F0D          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F13          CALLS    #3,PAS$WRITE_STRING
                                           FFFFB00E  EF   9F 01F1A          PUSHAB   C.AHX
                                                     21   DD 01F20          PUSHL    #33
                                           00000000G EF   9F 01F22          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F28          CALLS    #3,PAS$WRITE_STRING
                          50 00000000G  EF           19   C5 01F2F          MULL3    #25,QTAB_OFFSET,R0
            5C FFFFFEF2GEF40            20           00   EE 01F37          EXTV     #0,#32,QTAB-270[R0],R12
                                    FC  AD           5C   D0 01F41          MOVL     R12,-4(FP)
                                                  FC AD   9F 01F45          PUSHAB   -4(FP)
                             00000000G  EF           01   FB 01F48          CALLS    #1,NUM_LEN
                                                     50   DD 01F4F          PUSHL    R0
                                                     5C   DD 01F51          PUSHL    R12
                                           00000000G EF   9F 01F53          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F59          CALLS    #3,PAS$WRITE_INTEGER
                                           FFFFAFEC  EF   9F 01F60          PUSHAB   C.AHY
                                                     04   DD 01F66          PUSHL    #4
                                           00000000G EF   9F 01F68          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F6E          CALLS    #3,PAS$WRITE_STRING
                                                  0000V   31 01F75          BRW      169$
                                           00000000G EF   9F 01F78 101$:    PUSHAB   SHIFT                                  ; 1078
                                                     04   DD 01F7E          PUSHL    #4
                                           00000000G EF   9F 01F80          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F86          CALLS    #3,PAS$WRITE_STRING
                                           FFFFAFC3  EF   9F 01F8D          PUSHAB   C.AHZ
                                                     24   DD 01F93          PUSHL    #36
                                           00000000G EF   9F 01F95          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01F9B          CALLS    #3,PAS$WRITE_STRING
                                           00000000G EF   9F 01FA2          PUSHAB   CRLF_SHIFT
                                                     06   DD 01FA8          PUSHL    #6
                                           00000000G EF   9F 01FAA          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01FB0          CALLS    #3,PAS$WRITE_STRING
                                           FFFFAFBD  EF   9F 01FB7          PUSHAB   C.AIA
                                                     24   DD 01FBD          PUSHL    #36
                                           00000000G EF   9F 01FBF          PUSHAB   PAS$FV_OUTPUT
                             00000000G  EF           03   FB 01FC5          CALLS    #3,PAS$WRITE_STRING
                                                  0000V   31 01FCC          BRW      169$
                          06            00 00000108G EF   CF 01FCF 102$:    CASEL    IDATA+264,#0,#6                        ; 1087
                                                  0000V      01FD7          .DISPL   103$
                                                  0000V      01FD9          .DISPL   103$
                                                  0000V      01FDB          .DISPL   103$
                                                  0000V      01FDD          .DISPL   104$
                          0000V     01FDF          .DISPL   105$
                          0000V     01FE1          .DISPL   103$
                          0000V     01FE3          .DISPL   103$
                          0000V  31 01FE5          BRW      106$
               00000000G    EF   9F 01FE8 103$:    PUSHAB   SHIFT                                  ; 1093
                            04   DD 01FEE          PUSHL    #4
               00000000G    EF   9F 01FF0          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 01FF6          CALLS    #3,PAS$WRITE_STRING
               FFFFAF9B     EF   9F 01FFD          PUSHAB   C.AIB
                            10   DD 02003          PUSHL    #16
               00000000G    EF   9F 02005          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 0200B          CALLS    #3,PAS$WRITE_STRING
               00000000G    EF   9F 02012          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               01   FB 02018          CALLS    #1,PAS$WRITELN2
                            00V  11 0201F          BRB      107$
               00000000G    EF   9F 02021 104$:    PUSHAB   SHIFT                                  ; 1094
                            04   DD 02027          PUSHL    #4
               00000000G    EF   9F 02029          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 0202F          CALLS    #3,PAS$WRITE_STRING
               FFFFAF72     EF   9F 02036          PUSHAB   C.AIC
                            14   DD 0203C          PUSHL    #20
               00000000G    EF   9F 0203E          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 02044          CALLS    #3,PAS$WRITE_STRING
               00000000G    EF   9F 0204B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               01   FB 02051          CALLS    #1,PAS$WRITELN2
                            00V  11 02058          BRB      107$
               00000000G    EF   9F 0205A 105$:    PUSHAB   SHIFT                                  ; 1095
                            04   DD 02060          PUSHL    #4
               00000000G    EF   9F 02062          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 02068          CALLS    #3,PAS$WRITE_STRING
               FFFFAF4D     EF   9F 0206F          PUSHAB   C.AID
                            2D   DD 02075          PUSHL    #45
               00000000G    EF   9F 02077          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 0207D          CALLS    #3,PAS$WRITE_STRING
               00000000G    EF   9F 02084          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               01   FB 0208A          CALLS    #1,PAS$WRITELN2
                            00V  11 02091          BRB      107$
                                    02093 106$:
               00000000G    EF   9F 02093 107$:    PUSHAB   SHIFT                                  ; 1104
                            04   DD 02099          PUSHL    #4
               00000000G    EF   9F 0209B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 020A1          CALLS    #3,PAS$WRITE_STRING
               FFFFAF44     EF   9F 020A8          PUSHAB   C.AIE
                            21   DD 020AE          PUSHL    #33
               00000000G    EF   9F 020B0          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 020B6          CALLS    #3,PAS$WRITE_STRING
                          0000V  31 020BD          BRW      169$
               00000000G    EF   9F 020C0 108$:    PUSHAB   SHIFT                                  ; 1111
                            04   DD 020C6          PUSHL    #4
               00000000G    EF   9F 020C8          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 020CE          CALLS    #3,PAS$WRITE_STRING
               FFFFAF3B     EF   9F 020D5          PUSHAB   C.AIF
                            17   DD 020DB          PUSHL    #23
               00000000G    EF   9F 020DD          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 020E3          CALLS    #3,PAS$WRITE_STRING
               00000000G    EF   9F 020EA          PUSHAB   CUR_MAX_FIXED
00000000G  EF               01   FB 020F0          CALLS    #1,NUM_LEN
```

```
                                   50  DD 020F7          PUSHL   R0
                     00000000G     EF  DD 020F9          PUSHL   CUR_MAX_FIXED
                     00000000G     EF  9F 020FF          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 02105          CALLS   #3,PAS$WRITE_INTEGER
                     FFFFAF1C      EF  9F 0210C          PUSHAB  C.AIG
                                   07  DD 02112          PUSHL   #7
                     00000000G     EF  9F 02114          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 0211A          CALLS   #3,PAS$WRITE_STRING
                                0000V  31 02121          BRW     169$
                     00000000G     EF  9F 02124 109$:    PUSHAB  SHIFT                                 ; 1118
                                   04  DD 0212A          PUSHL   #4
                     00000000G     EF  9F 0212C          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 02132          CALLS   #3,PAS$WRITE_STRING
 00V00000000G   EF                 00  E1 02139          BBC     #0,VARIABLE_RECORDS,111$              ; 1120
                     FFFFAEEF      EF  9F 02141          PUSHAB  C.AIH                                 ; 1122
                                   05  DD 02147          PUSHL   #5
                     00000000G     EF  9F 02149          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 0214F          CALLS   #3,PAS$WRITE_STRING
                     FFFFAEE2      EF  9F 02156 111$:    PUSHAB  C.AII                                 ; 1124
                                   0B  DD 0215C          PUSHL   #11
                     00000000G     EF  9F 0215E          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 02164          CALLS   #3,PAS$WRITE_STRING
                0F   00000100G     EF  D1 0216B          CMPL    IDATA+256,#15                         ; 1126
                                  00V  12 02172          BNEQ    113$
                     FFFFAED0      EF  9F 02174          PUSHAB  C.AIJ                                 ; 1128
                                   06  DD 0217A          PUSHL   #6
                     00000000G     EF  9F 0217C          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 02182          CALLS   #3,PAS$WRITE_STRING
 00V00000000G   EF                 00  E0 02189 113$:    BBS     #0,VARIABLE_RECORDS,115$              ; 1130
                                   01  DD 02191          PUSHL   #1                                    ; 1132
                7E   00000000G     EF  9A 02193          MOVZBL  TAB,-(SP)
                     00000000G     EF  9F 0219A          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 021A0          CALLS   #3,PAS$WRITE_CHAR
                     FFFFAEA5      EF  9F 021A7 115$:    PUSHAB  C.AIK                                 ; 1134
                                   05  DD 021AD          PUSHL   #5
                     00000000G     EF  9F 021AF          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 021B5          CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF  9F 021BC          PUSHAB  CUR_MAX_REC
   00000000G    EF                 01  FB 021C2          CALLS   #1,NUM_LEN
                                   50  DD 021C9          PUSHL   R0
                     00000000G     EF  DD 021CB          PUSHL   CUR_MAX_REC
                     00000000G     EF  9F 021D1          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 021D7          CALLS   #3,PAS$WRITE_INTEGER
                                   01  DD 021DE          PUSHL   #1
                                   29  DD 021E0          PUSHL   #41
                     00000000G     EF  9F 021E2          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 021E8          CALLS   #3,PAS$WRITE_CHAR
                     00000000G     EF  9F 021EF          PUSHAB  ANSI_REVERSE
                                   04  DD 021F5          PUSHL   #4
                     00000000G     EF  9F 021F7          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 021FD          CALLS   #3,PAS$WRITE_STRING
                     FFFFAE50      EF  9F 02204          PUSHAB  C.AIL
                                   03  DD 0220A          PUSHL   #3
                     00000000G     EF  9F 0220C          PUSHAB  PAS$FV_OUTPUT
   00000000G    EF                 03  FB 02212          CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF  9F 02219          PUSHAB  ANSI_RESET
                                   04  DD 0221F          PUSHL   #4
```

```
                  00000000G  EF  9F 02221           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02227           CALLS   #3,PAS$WRITE_STRING
                  FFFFAE2A   EF  9F 0222E           PUSHAB  C.AIM
                             03  DD 02234           PUSHL   #3
                  00000000G  EF  9F 02236           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0223C           CALLS   #3,PAS$WRITE_STRING
                       0000V 31  31 02243           BRW     169$
                  00000000   8F  DF 02246 116$:     PUSHAL  #0                                       ; 1147
   00000000G  EF             01  FB 0224C           CALLS   #1,CLEAR
00V00000000G  EF             00  E0 02253           BBS     #0,FULL_PROMPT,118$                      ; 1149
03 00000000G  EF             00  E0 0225B           BBS     #0,TEMP_FULL_PROMPT,.+3
                       0000V 31  31 02263           BRW     121$
                  00000000G  EF  9F 02266 118$:     PUSHAB  SHIFT                                    ; 1153
                             04  DD 0226C           PUSHL   #4
                  00000000G  EF  9F 0226E           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02274           CALLS   #3,PAS$WRITE_STRING
                  FFFFADE1   EF  9F 0227B           PUSHAB  C.AIN
                             02  DD 02281           PUSHL   #2
                  00000000G  EF  9F 02283           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02289           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 02290           PUSHAB  ANSI_REVERSE
                             04  DD 02296           PUSHL   #4
                  00000000G  EF  9F 02298           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0229E           CALLS   #3,PAS$WRITE_STRING
                  FFFFADBB   EF  9F 022A5           PUSHAB  C.AIO
                             04  DD 022AB           PUSHL   #4
                  00000000G  EF  9F 022AD           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 022B3           CALLS   #3,PAS$WRITE_STRING
                             03  DD 022BA           PUSHL   #3
                  00000084G  EF  DD 022BC           PUSHL   IDATA+132
                  00000000G  EF  9F 022C2           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 022C8           CALLS   #3,PAS$WRITE_INTEGER
                  FFFFAD95   EF  9F 022CF           PUSHAB  C.AIP
                             16  DD 022D5           PUSHL   #22
                  00000000G  EF  9F 022D7           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 022DD           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 022E4           PUSHAB  ANSI_RESET
                             04  DD 022EA           PUSHL   #4
                  00000000G  EF  9F 022EC           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 022F2           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 022F9           PUSHAB  CRLF
                             02  DD 022FF           PUSHL   #2
                  00000000G  EF  9F 02301           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02307           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 0230E           PUSHAB  CRLF_SHIFT
                             06  DD 02314           PUSHL   #6
                  00000000G  EF  9F 02316           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0231C           CALLS   #3,PAS$WRITE_STRING
                  FFFFAD59   EF  9F 02323           PUSHAB  C.AIQ
                             37  DD 02329           PUSHL   #55
                  00000000G  EF  9F 0232B           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02331           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 02338           PUSHAB  CRLF_SHIFT
                             06  DD 0233E           PUSHL   #6
                  00000000G  EF  9F 02340           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 02346           CALLS   #3,PAS$WRITE_STRING
                  FFFFAD67   EF  9F 0234D           PUSHAB  C.AIR
```

```
                                   3C    DD 02353        PUSHL   #60
                     00000000G     EF    9F 02355        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 0235B        CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF    9F 02362        PUSHAB  CRLF_SHIFT
                                   06    DD 02368        PUSHL   #6
                     00000000G     EF    9F 0236A        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 02370        CALLS   #3,PAS$WRITE_STRING
                     FFFFAD79      EF    9F 02377        PUSHAB  C.AIS
                                   3B    DD 0237D        PUSHL   #59
                     00000000G     EF    9F 0237F        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 02385        CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF    9F 0238C        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 01    FB 02392        CALLS   #1,PAS$WRITELN2
                     00000084G     EF    D5 02399        TSTL    IDATA+132                                    ; 1168
                                   03    13 0239F        BEQL    .+3
                                0000V    31 023A1        BRW     120$
                     00000000G     EF    9F 023A4        PUSHAB  SHIFT                                        ; 1172
                                   04    DD 023AA        PUSHL   #4
                     00000000G     EF    9F 023AC        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 023B2        CALLS   #3,PAS$WRITE_STRING
                     FFFFAD73      EF    9F 023B9        PUSHAB  C.AIT
                                   3E    DD 023BF        PUSHL   #62
                     00000000G     EF    9F 023C1        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 023C7        CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF    9F 023CE        PUSHAB  CRLF_SHIFT
                                   06    DD 023D4        PUSHL   #6
                     00000000G     EF    9F 023D6        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 023DC        CALLS   #3,PAS$WRITE_STRING
                     FFFFAD89      EF    9F 023E3        PUSHAB  C.AIU
                                   3C    DD 023E9        PUSHL   #60
                     00000000G     EF    9F 023EB        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 023F1        CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF    9F 023F8        PUSHAB  CRLF_SHIFT
                                   06    DD 023FE        PUSHL   #6
                     00000000G     EF    9F 02400        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 02406        CALLS   #3,PAS$WRITE_STRING
                     FFFFAD9B      EF    9F 0240D        PUSHAB  C.AIV
                                   3B    DD 02413        PUSHL   #59
                     00000000G     EF    9F 02415        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 0241B        CALLS   #3,PAS$WRITE_STRING
                     00000000G     EF    9F 02422        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 01    FB 02428        CALLS   #1,PAS$WRITELN2
                     00000000G     EF    9F 0242F 120$:  PUSHAB  PAS$FV_OUTPUT                                ; 1181
     00000000G  EF                 01    FB 02435        CALLS   #1,PAS$WRITELN2
                                  00V    11 0243C        BRB     125$
                     00000000G     EF    9F 0243E 121$:  PUSHAB  SHIFT                                        ; 1189
                                   04    DD 02444        PUSHL   #4
                     00000000G     EF    9F 02446        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 0244C        CALLS   #3,PAS$WRITE_STRING
                     FFFFAD91      EF    9F 02453        PUSHAB  C.AIW
                                   0E    DD 02459        PUSHL   #14
                     00000000G     EF    9F 0245B        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF                 03    FB 02461        CALLS   #3,PAS$WRITE_STRING
                     00000084G     EF    D5 02468        TSTL    IDATA+132                                    ; 1191
                                  00V    12 0246E        BNEQ    123$
                     FFFFAD84      EF    9F 02470        PUSHAB  C.AIX                                        ; 1193
                                   11    DD 02476        PUSHL   #17
```

```
                                    00000000G   EF   9F 02478          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 0247E          CALLS   #3,PAS$WRITE_STRING
                                               00V   11 02485          BRB     124$
                                                01   DD 02487  123$:   PUSHL   #1                                  ; 1197
                                                29   DD 02489          PUSHL   #41
                                    00000000G   EF   9F 0248B          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 02491          CALLS   #3,PAS$WRITE_CHAR
                                    00000000G   EF   9F 02498  124$:   PUSHAB  PAS$FV_OUTPUT                       ; 1199
                    00000000G   EF              01   FB 0249E          CALLS   #1,PAS$WRITELN2
                                    00000000G   EF   9F 024A5  125$:   PUSHAB  SHIFT                               ; 1206
                                                04   DD 024AB          PUSHL   #4
                                    00000000G   EF   9F 024AD          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 024B3          CALLS   #3,PAS$WRITE_STRING
                                    FFFFAD4E    EF   9F 024BA          PUSHAB  C.AIY
                                                21   DD 024C0          PUSHL   #33
                                    00000000G   EF   9F 024C2          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 024C8          CALLS   #3,PAS$WRITE_STRING
                 50 00000000G   EF              19   C5 024CF          MULL3   #25,QTAB_OFFSET,R0                  ; 1208
   50 FFFFFEF2GEF40             20              00   EE 024D7          EXTV    #0,#32,QTAB-270[R0],R0
                 05             00              50   CF 024E1          CASEL   R0,#0,#5
                                             0000V      024E5          .DISPL  127$
                                             0000V      024E7          .DISPL  129$
                                             0000V      024E9          .DISPL  130$
                                             0000V      024EB          .DISPL  131$
                                             0000V      024ED          .DISPL  128$
                                             0000V      024EF          .DISPL  126$
                                             0000V   31 024F1          BRW     132$
                                    FFFFAD38    EF   9F 024F4  126$:   PUSHAB  C.AIZ                               ; 1210
                                                08   DD 024FA          PUSHL   #8
                                    00000000G   EF   9F 024FC          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 02502          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02509          BRW     169$
                                    FFFFAD28    EF   9F 0250C  127$:   PUSHAB  C.AJA                               ; 1211
                                                08   DD 02512          PUSHL   #8
                                    00000000G   EF   9F 02514          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 0251A          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02521          BRW     169$
                                    FFFFAD18    EF   9F 02524  128$:   PUSHAB  C.AJB                               ; 1212
                                                07   DD 0252A          PUSHL   #7
                                    00000000G   EF   9F 0252C          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 02532          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02539          BRW     169$
                                    FFFFAD08    EF   9F 0253C  129$:   PUSHAB  C.AJC                               ; 1213
                                                07   DD 02542          PUSHL   #7
                                    00000000G   EF   9F 02544          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 0254A          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02551          BRW     169$
                                    FFFFACF8    EF   9F 02554  130$:   PUSHAB  C.AJD                               ; 1214
                                                08   DD 0255A          PUSHL   #8
                                    00000000G   EF   9F 0255C          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 02562          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02569          BRW     169$
                                    FFFFACE8    EF   9F 0256C  131$:   PUSHAB  C.AJE                               ; 1215
                                                07   DD 02572          PUSHL   #7
                                    00000000G   EF   9F 02574          PUSHAB  PAS$FV_OUTPUT
                    00000000G   EF              03   FB 0257A          CALLS   #3,PAS$WRITE_STRING
                                             0000V   31 02581          BRW     169$
```

```
                                  0000V  31 02584 132$:  BRW      169$
                        00000000     8F  DF 02587 134$:  PUSHAL   #0                                      ; 1232
             00000000G  EF           01  FB 0258D        CALLS    #1,CLEAR
           00V00000000G EF           00  E0 02594        BBS      #0,FULL_PROMPT,136$                     ; 1234
           03 00000000G EF           00  E0 0259C        BBS      #0,TEMP_FULL_PROMPT,.+3
                                  0000V  31 025A4        BRW      140$
                        00000000G    EF  9F 025A7 136$:  PUSHAB   SHIFT                                   ; 1238
                                     04  DD 025AD        PUSHL    #4
                        00000000G    EF  9F 025AF        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 025B5        CALLS    #3,PAS$WRITE_STRING
                        FFFFACA0     EF  9F 025BC        PUSHAB   C.AJF
                                     02  DD 025C2        PUSHL    #2
                        00000000G    EF  9F 025C4        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 025CA        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 025D1        PUSHAB   ANSI_REVERSE
                                     04  DD 025D7        PUSHL    #4
                        00000000G    EF  9F 025D9        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 025DF        CALLS    #3,PAS$WRITE_STRING
                        FFFFAC7A     EF  9F 025E6        PUSHAB   C.AJG
                                     1C  DD 025EC        PUSHL    #28
                        00000000G    EF  9F 025EE        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 025F4        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 025FB        PUSHAB   ANSI_RESET
                                     04  DD 02601        PUSHL    #4
                        00000000G    EF  9F 02603        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 02609        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 02610        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           01  FB 02616        CALLS    #1,PAS$WRITELN2
           03 00000000G EF           00  E0 0261D        BBS      #0,DEC_CRT,.+3                          ; 1245
                                  0000V  31 02625        BRW      138$
                        00000000G    EF  9F 02628        PUSHAB   CRLF                                    ; 1249
                                     02  DD 0262E        PUSHL    #2
                        00000000G    EF  9F 02630        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 02636        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 0263D        PUSHAB   LOW_SHIFT
                                     03  DD 02643        PUSHL    #3
                        00000000G    EF  9F 02645        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 0264B        CALLS    #3,PAS$WRITE_STRING
                        FFFFAC2A     EF  9F 02652        PUSHAB   C.AJH
                        0000005A     8F  DD 02658        PUSHL    #90
                        00000000G    EF  9F 0265E        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 02664        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 0266B        PUSHAB   CRLF
                                     02  DD 02671        PUSHL    #2
                        00000000G    EF  9F 02673        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 02679        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 02680        PUSHAB   LOW_SHIFT
                                     03  DD 02686        PUSHL    #3
                        00000000G    EF  9F 02688        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 0268E        CALLS    #3,PAS$WRITE_STRING
                        FFFFAC43     EF  9F 02695        PUSHAB   C.AJI
                        0000005F     8F  DD 0269B        PUSHL    #95
                        00000000G    EF  9F 026A1        PUSHAB   PAS$FV_OUTPUT
             00000000G  EF           03  FB 026A7        CALLS    #3,PAS$WRITE_STRING
                        00000000G    EF  9F 026AE        PUSHAB   CRLF
                                     02  DD 026B4        PUSHL    #2
                        00000000G    EF  9F 026B6        PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF                   03   FB 026BC           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 026C3           PUSHAB  LOW_SHIFT
                                03   DD 026C9           PUSHL   #3
                 00000000G      EF   9F 026CB           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 026D1           CALLS   #3,PAS$WRITE_STRING
                 FFFFAC60       EF   9F 026D8           PUSHAB  C.AJJ
                 00000059       8F   DD 026DE           PUSHL   #89
                 00000000G      EF   9F 026E4           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 026EA           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 026F1           PUSHAB  CRLF
                                02   DD 026F7           PUSHL   #2
                 00000000G      EF   9F 026F9           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 026FF           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 02706           PUSHAB  LOW_SHIFT
                                03   DD 0270C           PUSHL   #3
                 00000000G      EF   9F 0270E           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 02714           CALLS   #3,PAS$WRITE_STRING
                 FFFFAC79       EF   9F 0271B           PUSHAB  C.AJK
                 0000005F       8F   DD 02721           PUSHL   #95
                 00000000G      EF   9F 02727           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 0272D           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 02734           PUSHAB  CRLF
                                02   DD 0273A           PUSHL   #2
                 00000000G      EF   9F 0273C           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 02742           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 02749           PUSHAB  LOW_SHIFT
                                03   DD 0274F           PUSHL   #3
                 00000000G      EF   9F 02751           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 02757           CALLS   #3,PAS$WRITE_STRING
                 FFFFAC96       EF   9F 0275E           PUSHAB  C.AJL
                 0000005B       8F   DD 02764           PUSHL   #91
                 00000000G      EF   9F 0276A           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 02770           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 02777           PUSHAB  CRLF
                                02   DD 0277D           PUSHL   #2
                 00000000G      EF   9F 0277F           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 02785           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 0278C           PUSHAB  LOW_SHIFT
                                03   DD 02792           PUSHL   #3
                 00000000G      EF   9F 02794           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 0279A           CALLS   #3,PAS$WRITE_STRING
                 FFFFACAF       EF   9F 027A1           PUSHAB  C.AJM
                 0000005F       8F   DD 027A7           PUSHL   #95
                 00000000G      EF   9F 027AD           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 027B3           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 027BA           PUSHAB  CRLF
                                02   DD 027C0           PUSHL   #2
                 00000000G      EF   9F 027C2           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 027C8           CALLS   #3,PAS$WRITE_STRING
                 00000000G      EF   9F 027CF           PUSHAB  LOW_SHIFT
                                03   DD 027D5           PUSHL   #3
                 00000000G      EF   9F 027D7           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 027DD           CALLS   #3,PAS$WRITE_STRING
                 FFFFACCC       EF   9F 027E4           PUSHAB  C.AJN
                 0000005D       8F   DD 027EA           PUSHL   #93
                 00000000G      EF   9F 027F0           PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 027F6           CALLS   #3,PAS$WRITE_STRING
```

```
                   00000000G  EF   9F 027FD          PUSHAB  CRLF
                              02   DD 02803          PUSHL   #2
                   00000000G  EF   9F 02805          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02808          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02812          PUSHAB  LOW_SHIFT
                              03   DD 02818          PUSHL   #3
                   00000000G  EF   9F 0281A          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02820          CALLS   #3,PAS$WRITE_STRING
                   FFFFACE9   EF   9F 02827          PUSHAB  C.AJO
                   0000005F   8F   DD 0282D          PUSHL   #95
                   00000000G  EF   9F 02833          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02839          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02840          PUSHAB  CRLF
                              02   DD 02846          PUSHL   #2
                   00000000G  EF   9F 02848          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 0284E          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02855          PUSHAB  LOW_SHIFT
                              03   DD 0285B          PUSHL   #3
                   00000000G  EF   9F 0285D          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02863          CALLS   #3,PAS$WRITE_STRING
                   FFFFAD06   EF   9F 0286A          PUSHAB  C.AJP
                   00000057   8F   DD 02870          PUSHL   #87
                   00000000G  EF   9F 02876          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 0287C          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02883          PUSHAB  CRLF
                              02   DD 02889          PUSHL   #2
                   00000000G  EF   9F 0288B          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02891          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02898          PUSHAB  LOW_SHIFT
                              03   DD 0289E          PUSHL   #3
                   00000000G  EF   9F 028A0          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 028A6          CALLS   #3,PAS$WRITE_STRING
                   FFFFAD1B   EF   9F 028AD          PUSHAB  C.AJQ
                   0000004B   8F   DD 028B3          PUSHL   #75
                   00000000G  EF   9F 028B9          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 028BF          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 028C6          PUSHAB  CRLF
                              02   DD 028CC          PUSHL   #2
                   00000000G  EF   9F 028CE          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 028D4          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 028DB          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               01   FB 028E1          CALLS   #1,PAS$WRITELN2
                          0000V    31 028E8          BRW     139$
                   00000000G  EF   9F 028EB  138$:   PUSHAB  CRLF                                  ; 1277
                              02   DD 028F1          PUSHL   #2
                   00000000G  EF   9F 028F3          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 028F9          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 02900          PUSHAB  LOW_SHIFT
                              03   DD 02906          PUSHL   #3
                   00000000G  EF   9F 02908          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 0290E          CALLS   #3,PAS$WRITE_STRING
                   FFFFACFF   EF   9F 02915          PUSHAB  C.AJR
                   0000004E   8F   DD 0291B          PUSHL   #78
                   00000000G  EF   9F 02921          PUSHAB  PAS$FV_OUTPUT
 00000000G   EF               03   FB 02927          CALLS   #3,PAS$WRITE_STRING
                   00000000G  EF   9F 0292E          PUSHAB  CRLF
                              02   DD 02934          PUSHL   #2
```

```
                  00000000G  EF   9F 02936        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 0293C        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02943        PUSHAB  LOW_SHIFT
                             03   DD 02949        PUSHL   #3
                  00000000G  EF   9F 0294B        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02951        CALLS   #3,PAS$WRITE_STRING
                  FFFFAD0C   EF   9F 02958        PUSHAB  C.AJS
                  0000004E   8F   DD 0295E        PUSHL   #78
                  00000000G  EF   9F 02964        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 0296A        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02971        PUSHAB  CRLF
                             02   DD 02977        PUSHL   #2
                  00000000G  EF   9F 02979        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 0297F        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02986        PUSHAB  LOW_SHIFT
                             03   DD 0298C        PUSHL   #3
                  00000000G  EF   9F 0298E        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02994        CALLS   #3,PAS$WRITE_STRING
                  FFFFAD19   EF   9F 0299B        PUSHAB  C.AJT
                  0000004E   8F   DD 029A1        PUSHL   #78
                  00000000G  EF   9F 029A7        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 029AD        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 029B4        PUSHAB  CRLF
                             02   DD 029BA        PUSHL   #2
                  00000000G  EF   9F 029BC        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 029C2        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 029C9        PUSHAB  LOW_SHIFT
                             03   DD 029CF        PUSHL   #3
                  00000000G  EF   9F 029D1        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 029D7        CALLS   #3,PAS$WRITE_STRING
                  FFFFAD26   EF   9F 029DE        PUSHAB  C.AJU
                  0000004E   8F   DD 029E4        PUSHL   #78
                  00000000G  EF   9F 029EA        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 029F0        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 029F7        PUSHAB  CRLF
                             02   DD 029FD        PUSHL   #2
                  00000000G  EF   9F 029FF        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02A05        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02A0C        PUSHAB  LOW_SHIFT
                             03   DD 02A12        PUSHL   #3
                  00000000G  EF   9F 02A14        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02A1A        CALLS   #3,PAS$WRITE_STRING
                  FFFFAD33   EF   9F 02A21        PUSHAB  C.AJV
                  0000004E   8F   DD 02A27        PUSHL   #78
                  00000000G  EF   9F 02A2D        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02A33        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02A3A        PUSHAB  CRLF
                             02   DD 02A40        PUSHL   #2
                  00000000G  EF   9F 02A42        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02A48        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 02A4F        PUSHAB  LOW_SHIFT
                             03   DD 02A55        PUSHL   #3
                  00000000G  EF   9F 02A57        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF           03   FB 02A5D        CALLS   #3,PAS$WRITE_STRING
                  FFFFAD40   EF   9F 02A64        PUSHAB  C.AJW
                  0000004E   8F   DD 02A6A        PUSHL   #78
                  00000000G  EF   9F 02A70        PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF                  03  FB 02A76          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02A7D          PUSHAB   CRLF
                               02  DD 02A83          PUSHL    #2
                  00000000G    EF  9F 02A85          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02A8B          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02A92          PUSHAB   LOW_SHIFT
                               03  DD 02A98          PUSHL    #3
                  00000000G    EF  9F 02A9A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02AA0          CALLS    #3,PAS$WRITE_STRING
                  FFFFAD4D     EF  9F 02AA7          PUSHAB   C.AJX
                  0000004E     8F  DD 02AAD          PUSHL    #78
                  00000000G    EF  9F 02AB3          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02AB9          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02AC0          PUSHAB   CRLF
                               02  DD 02AC6          PUSHL    #2
                  00000000G    EF  9F 02AC8          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02ACE          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02AD5          PUSHAB   LOW_SHIFT
                               03  DD 02ADB          PUSHL    #3
                  00000000G    EF  9F 02ADD          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02AE3          CALLS    #3,PAS$WRITE_STRING
                  FFFFAD5A     EF  9F 02AEA          PUSHAB   C.AJY
                  0000004E     8F  DD 02AF0          PUSHL    #78
                  00000000G    EF  9F 02AF6          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02AFC          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B03          PUSHAB   CRLF
                               02  DD 02B09          PUSHL    #2
                  00000000G    EF  9F 02B0B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B11          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B18          PUSHAB   LOW_SHIFT
                               03  DD 02B1E          PUSHL    #3
                  00000000G    EF  9F 02B20          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B26          CALLS    #3,PAS$WRITE_STRING
                  FFFFAD67     EF  9F 02B2D          PUSHAB   C.AJZ
                  0000004E     8F  DD 02B33          PUSHL    #78
                  00000000G    EF  9F 02B39          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B3F          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B46          PUSHAB   CRLF
                               02  DD 02B4C          PUSHL    #2
                  00000000G    EF  9F 02B4E          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B54          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B5B          PUSHAB   LOW_SHIFT
                               03  DD 02B61          PUSHL    #3
                  00000000G    EF  9F 02B63          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B69          CALLS    #3,PAS$WRITE_STRING
                  FFFFAD74     EF  9F 02B70          PUSHAB   C.AKA
                  0000004B     8F  DD 02B76          PUSHL    #75
                  00000000G    EF  9F 02B7C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B82          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B89          PUSHAB   CRLF
                               02  DD 02B8F          PUSHL    #2
                  00000000G    EF  9F 02B91          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03  FB 02B97          CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF  9F 02B9E          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  01  FB 02BA4          CALLS    #1,PAS$WRITELN2
                               00V 11 02BAB 139$:    BRB      141$
                  00000000G    EF  9F 02BAD 140$:    PUSHAB   SHIFT                                          ; 1307
```

```
                            04   DD 02BB3           PUSHL    #4
                  00000000G EF   9F 02BB5           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BBB           CALLS    #3,PAS$WRITE_STRING
                  FFFFAD6E  EF   9F 02BC2           PUSHAB   C.AKB
                            1B   DD 02BC8           PUSHL    #27
                  00000000G EF   9F 02BCA           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BD0           CALLS    #3,PAS$WRITE_STRING
                  00000000G EF   9F 02BD7           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            01   FB 02BDD           CALLS    #1,PAS$WRITELN2
                  00000000G EF   9F 02BE4 141$:     PUSHAB   SHIFT                                  ; 1314
                            04   DD 02BEA           PUSHL    #4
                  00000000G EF   9F 02BEC           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BF2           CALLS    #3,PAS$WRITE_STRING
                  FFFFAD53  EF   9F 02BF9           PUSHAB   C.AKC
                            2B   DD 02BFF           PUSHL    #43
                  00000000G EF   9F 02C01           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C07           CALLS    #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C0E           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            01   FB 02C14           CALLS    #1,PAS$WRITELN2
                  00000000G EF   9F 02C1B           PUSHAB   SHIFT                                  ; 1315
                            04   DD 02C21           PUSHL    #4
                  00000000G EF   9F 02C23           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C29           CALLS    #3,PAS$WRITE_STRING
                  FFFFAD48  EF   9F 02C30           PUSHAB   C.AKD
                            2F   DD 02C36           PUSHL    #47
                  00000000G EF   9F 02C38           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C3E           CALLS    #3,PAS$WRITE_STRING
                         0000V   31 02C45           BRW      169$
                  00000000  8F   DF 02C48 142$:     PUSHAL   #0                                     ; 1327
   00000000G  EF            01   FB 02C4E           CALLS    #1,CLEAR
00v00000000G  EF            00   E0 02C55           BBS      #0,FULL_PROMPT,144$                    ; 1329
03 00000000G  EF            00   E0 02C5D           BBS      #0,TEMP_FULL_PROMPT,.+3
                         0000V   31 02C65           BRW      145$
                  00000000G EF   9F 02C68 144$:     PUSHAB   SHIFT                                  ; 1333
                            04   DD 02C6E           PUSHL    #4
                  00000000G EF   9F 02C70           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C76           CALLS    #3,PAS$WRITE_STRING
                  FFFFAD2B  EF   9F 02C7D           PUSHAB   C.AKE
                            02   DD 02C83           PUSHL    #2
                  00000000G EF   9F 02C85           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C8B           CALLS    #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C92           PUSHAB   ANSI_REVERSE
                            04   DD 02C98           PUSHL    #4
                  00000000G EF   9F 02C9A           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02CA0           CALLS    #3,PAS$WRITE_STRING
                  FFFFAD05  EF   9F 02CA7           PUSHAB   C.AKF
                            19   DD 02CAD           PUSHL    #25
                  00000000G EF   9F 02CAF           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02CB5           CALLS    #3,PAS$WRITE_STRING
                  00000000G EF   9F 02CBC           PUSHAB   ANSI_RESET
                            04   DD 02CC2           PUSHL    #4
                  00000000G EF   9F 02CC4           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02CCA           CALLS    #3,PAS$WRITE_STRING
                  00000000G EF   9F 02CD1           PUSHAB   CRLF
                            02   DD 02CD7           PUSHL    #2
                  00000000G EF   9F 02CD9           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF            03   FB 02CDF           CALLS    #3,PAS$WRITE_STRING
```

```
                           00000000G  EF  9F  02CE6          PUSHAB  CRLF_SHIFT
                                      06  DD  02CEC          PUSHL   #6
                           00000000G  EF  9F  02CEE          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02CF4          CALLS   #3,PAS$WRITE_STRING
                           FFFFACCD   EF  9F  02CFB          PUSHAB  C.AKG
                                      26  DD  02D01          PUSHL   #38
                           00000000G  EF  9F  02D03          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D09          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02D10          PUSHAB  CRLF_SHIFT
                                      06  DD  02D16          PUSHL   #6
                           00000000G  EF  9F  02D18          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D1E          CALLS   #3,PAS$WRITE_STRING
                           FFFFACCB   EF  9F  02D25          PUSHAB  C.AKH
                                      21  DD  02D2B          PUSHL   #33
                           00000000G  EF  9F  02D2D          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D33          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02D3A          PUSHAB  CRLF_SHIFT
                                      06  DD  02D40          PUSHL   #6
                           00000000G  EF  9F  02D42          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D48          CALLS   #3,PAS$WRITE_STRING
                           FFFFACC5   EF  9F  02D4F          PUSHAB  C.AKI
                                      2B  DD  02D55          PUSHL   #43
                           00000000G  EF  9F  02D57          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D5D          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02D64          PUSHAB  CRLF_SHIFT
                                      06  DD  02D6A          PUSHL   #6
                           00000000G  EF  9F  02D6C          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D72          CALLS   #3,PAS$WRITE_STRING
                           FFFFACC7   EF  9F  02D79          PUSHAB  C.AKJ
                                      2C  DD  02D7F          PUSHL   #44
                           00000000G  EF  9F  02D81          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D87          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02D8E          PUSHAB  CRLF_SHIFT
                                      06  DD  02D94          PUSHL   #6
                           00000000G  EF  9F  02D96          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02D9C          CALLS   #3,PAS$WRITE_STRING
                           FFFFACC9   EF  9F  02DA3          PUSHAB  C.AKK
                                      2B  DD  02DA9          PUSHL   #43
                           00000000G  EF  9F  02DAB          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02DB1          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02DB8          PUSHAB  CRLF_SHIFT
                                      06  DD  02DBE          PUSHL   #6
                           00000000G  EF  9F  02DC0          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02DC6          CALLS   #3,PAS$WRITE_STRING
                           FFFFACCB   EF  9F  02DCD          PUSHAB  C.AKL
                                      23  DD  02DD3          PUSHL   #35
                           00000000G  EF  9F  02DD5          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02DDB          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02DE2          PUSHAB  CRLF_SHIFT
                                      06  DD  02DE8          PUSHL   #6
                           00000000G  EF  9F  02DEA          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02DF0          CALLS   #3,PAS$WRITE_STRING
                           FFFFACC5   EF  9F  02DF7          PUSHAB  C.AKM
                                      2A  DD  02DFD          PUSHL   #42
                           00000000G  EF  9F  02DFF          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB  02E05          CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF  9F  02E0C          PUSHAB  CRLF_SHIFT
```

```
                                          06    DD  02E12           PUSHL   #6
                            00000000G     EF    9F  02E14           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E1A           CALLS   #3,PAS$WRITE_STRING
                            FFFFACC7      EF    9F  02E21           PUSHAB  C.AKN
                                          2F    DD  02E27           PUSHL   #47
                            00000000G     EF    9F  02E29           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E2F           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02E36           PUSHAB  CRLF
                                          02    DD  02E3C           PUSHL   #2
                            00000000G     EF    9F  02E3E           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E44           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02E4B           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    01    FB  02E51           CALLS   #1,PAS$WRITELN2
                                         00V    11  02E58           BRB     146$
                            00000000G     EF    9F  02E5A  145$:    PUSHAB  SHIFT                                    ; 1364
                                          04    DD  02E60           PUSHL   #4
                            00000000G     EF    9F  02E62           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E68           CALLS   #3,PAS$WRITE_STRING
                            FFFFACA9      EF    9F  02E6F           PUSHAB  C.AKO
                                          26    DD  02E75           PUSHL   #38
                            00000000G     EF    9F  02E77           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E7D           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02E84           PUSHAB  CRLF_SHIFT
                                          06    DD  02E8A           PUSHL   #6
                            00000000G     EF    9F  02E8C           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02E92           CALLS   #3,PAS$WRITE_STRING
                            FFFFACA7      EF    9F  02E99           PUSHAB  C.AKP
                                          28    DD  02E9F           PUSHL   #40
                            00000000G     EF    9F  02EA1           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02EA7           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02EAE           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    01    FB  02EB4           CALLS   #1,PAS$WRITELN2
                            00000000G     EF    9F  02EBB  146$:    PUSHAB  SHIFT                                    ; 1373
                                          04    DD  02EC1           PUSHL   #4
                            00000000G     EF    9F  02EC3           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02EC9           CALLS   #3,PAS$WRITE_STRING
                            FFFFAC98      EF    9F  02ED0           PUSHAB  C.AKQ
                                          26    DD  02ED6           PUSHL   #38
                            00000000G     EF    9F  02ED8           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02EDE           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02EE5           PUSHAB  ANSI_REVERSE
                                          04    DD  02EEB           PUSHL   #4
                            00000000G     EF    9F  02EED           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02EF3           CALLS   #3,PAS$WRITE_STRING
                            FFFFAC96      EF    9F  02EFA           PUSHAB  C.AKR
                                          03    DD  02F00           PUSHL   #3
                            00000000G     EF    9F  02F02           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02F08           CALLS   #3,PAS$WRITE_STRING
                            00000000G     EF    9F  02F0F           PUSHAB  ANSI_RESET
                                          04    DD  02F15           PUSHL   #4
                            00000000G     EF    9F  02F17           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02F1D           CALLS   #3,PAS$WRITE_STRING
                            FFFFAC70      EF    9F  02F24           PUSHAB  C.AKS
                                          03    DD  02F2A           PUSHL   #3
                            00000000G     EF    9F  02F2C           PUSHAB  PAS$FV_OUTPUT
        00000000G   EF                    03    FB  02F32           CALLS   #3,PAS$WRITE_STRING
                                       0000V    31  02F39           BRW     169$
```

```
                  00000000G  EF   9F 02F3C 147$:      PUSHAB  SHIFT                                        ; 1383
                             04   DD 02F42            PUSHL   #4
                  00000000G  EF   9F 02F44            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02F4A            CALLS   #3,PAS$WRITE_STRING
                  FFFFAC47   EF   9F 02F51            PUSHAB  C.AKT
                             16   DD 02F57            PUSHL   #22
                  00000000G  EF   9F 02F59            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02F5F            CALLS   #3,PAS$WRITE_STRING
               03 00000108G  EF   D1 02F66            CMPL    IDATA+264,#3                                 ; 1385
                             03   13 02F6D            BEQL    .+3
                          0000V   31 02F6F            BRW     149$
                  00000000G  EF   D4 02F72            CLRL    EXTRA                                        ; 1389
                  00000000G  EF   9F 02F78            PUSHAB  LOWMAX                                       ; 1390
      00000000G  EF          01   FB 02F7E            CALLS   #1,NUM_LEN
                             50   DD 02F85            PUSHL   R0
                  00000000G  EF   DD 02F87            PUSHL   LOWMAX
                  00000000G  EF   9F 02F8D            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02F93            CALLS   #3,PAS$WRITE_INTEGER
                             01   DD 02F9A            PUSHL   #1
                             2D   DD 02F9C            PUSHL   #45
                  00000000G  EF   9F 02F9E            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02FA4            CALLS   #3,PAS$WRITE_CHAR
                  00000000G  EF   9F 02FAB            PUSHAB  CUR_MAX_REC
      00000000G  EF          01   FB 02FB1            CALLS   #1,NUM_LEN
                             50   DD 02FB8            PUSHL   R0
                  00000000G  EF   DD 02FBA            PUSHL   CUR_MAX_REC
                  00000000G  EF   9F 02FC0            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02FC6            CALLS   #3,PAS$WRITE_INTEGER
                             01   DD 02FCD            PUSHL   #1
                             29   DD 02FCF            PUSHL   #41
                  00000000G  EF   9F 02FD1            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02FD7            CALLS   #3,PAS$WRITE_CHAR
                  00000000G  EF   9F 02FDE            PUSHAB  ANSI_REVERSE
                             04   DD 02FE4            PUSHL   #4
                  00000000G  EF   9F 02FE6            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 02FEC            CALLS   #3,PAS$WRITE_STRING
                  FFFFABBD   EF   9F 02FF3            PUSHAB  C.AKU
                             03   DD 02FF9            PUSHL   #3
                  00000000G  EF   9F 02FFB            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 03001            CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 03008            PUSHAB  ANSI_RESET
                             04   DD 0300E            PUSHL   #4
                  00000000G  EF   9F 03010            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 03016            CALLS   #3,PAS$WRITE_STRING
   50 00000000G  EF          19   C5 0301D            MULL3   #25,QTAB_OFFSET,R0                           ; 1394
                  FFFFFEF1GEF40   94 03025            CLRB    QTAB-271[R0]
                          0000V   31 0302C            BRW     150$
      00000000G  EF          02   D0 0302F 149$:      MOVL    #2,EXTRA                                     ; 1402
                  FFFFAB7E   EF   9F 03036            PUSHAB  C.AKV                                        ; 1403
                             02   DD 0303C            PUSHL   #2
                  00000000G  EF   9F 0303E            PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03   FB 03044            CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 0304B            PUSHAB  LOWMAX
      00000000G  EF          01   FB 03051            CALLS   #1,NUM_LEN
                             50   DD 03058            PUSHL   R0
                  00000000G  EF   DD 0305A            PUSHL   LOWMAX
                  00000000G  EF   9F 03060            PUSHAB  PAS$FV_OUTPUT
```

```
                   00000000G  EF                  03   FB 03066            CALLS    #3,PAS$WRITE_INTEGER
                                                  01   DD 0306D            PUSHL    #1
                                                  2D   DD 0306F            PUSHL    #45
                                      00000000G   EF   9F 03071            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 03077            CALLS    #3,PAS$WRITE_CHAR
                                      00000000G   EF   9F 0307E            PUSHAB   CUR_MAX_REC
                   00000000G  EF                  01   FB 03084            CALLS    #1,NUM_LEN
                                                  50   DD 0308B            PUSHL    R0
                                      00000000G   EF   DD 0308D            PUSHL    CUR_MAX_REC
                                      00000000G   EF   9F 03093            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 03099            CALLS    #3,PAS$WRITE_INTEGER
                                      FFFFAB18    EF   9F 030A0            PUSHAB   C.AKW
                                                  04   DD 030A6            PUSHL    #4
                                      00000000G   EF   9F 030A8            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 030AE            CALLS    #3,PAS$WRITE_STRING
                50 00000000G  EF                  19   C5 030B5            MULL3    #25,QTAB_OFFSET,R0                       ; 1406
                   FFFFFEF1GEF40                  01   90 030BD            MOVB     #1,QTAB-271[R0]
                50 00000000G  EF                  19   C5 030C5            MULL3    #25,QTAB_OFFSET,R0                       ; 1407
                              5C      FFFFFEF2G   EF   9E 030CD            MOVAB    QTAB-270,R12
                              5C                  50   C0 030D4            ADDL2    R0,R12
                                                  6C   D4 030D7            CLRL     (R12)
                                      00000000G   EF   9F 030D9 150$:      PUSHAB   CUR_MAX_REC                              ; 1411
                   00000000G  EF                  01   FB 030DF            CALLS    #1,NUM_LEN
                              5C                  50   D0 030E6            MOVL     R0,R12
                                      00000000G   EF   9F 030E9            PUSHAB   LOWMAX
                   00000000G  EF                  01   FB 030EF            CALLS    #1,NUM_LEN
                              50      00000000G   EF   C0 030F6            ADDL2    EXTRA,R0
                              50                  5C   C0 030FD            ADDL2    R12,R0
                              09                  50   D1 03100            CMPL     R0,#9
                                                 00V   15 03103            BLEQ     152$
                                      FFFFAAB7    EF   9F 03105            PUSHAB   C.AKX                                    ; 1415
                                                  03   DD 0310B            PUSHL    #3
                                      00000000G   EF   9F 0310D            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 03113            CALLS    #3,PAS$WRITE_STRING
                                               0000V   31 0311A            BRW      169$
                                      FFFFAAA3    EF   9F 0311D 152$:      PUSHAB   C.AKY                                    ; 1419
                                                  03   DD 03123            PUSHL    #3
                                      00000000G   EF   9F 03125            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 0312B            CALLS    #3,PAS$WRITE_STRING
                                               0000V   31 03132            BRW      169$
                                      00000000    8F   DF 03135 154$:      PUSHAL   #0                                       ; 1427
                   00000000G  EF                  01   FB 0313B            CALLS    #1,CLEAR
                03 00000000G  EF                  00   E0 03142            BBS      #0,FULL_CHOICE,.+3                       ; 1429
                                               0000V   31 0314A            BRW      160$
               00V00000000G  EF                  00   E0 0314D            BBS      #0,FULL_PROMPT,157$                      ; 1433
                03 00000000G  EF                  00   E0 03155            BBS      #0,TEMP_FULL_PROMPT,.+3
                                               0000V   31 0315D            BRW      158$
                                      00000000G   EF   9F 03160 157$:      PUSHAB   SHIFT                                    ; 1437
                                                  04   DD 03166            PUSHL    #4
                                      00000000G   EF   9F 03168            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 0316E            CALLS    #3,PAS$WRITE_STRING
                                      FFFFAA4F    EF   9F 03175            PUSHAB   C.AKZ
                                                  02   DD 0317B            PUSHL    #2
                                      00000000G   EF   9F 0317D            PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF                  03   FB 03183            CALLS    #3,PAS$WRITE_STRING
                                      00000000G   EF   9F 0318A            PUSHAB   ANSI_REVERSE
                                                  04   DD 03190            PUSHL    #4
```

```
                  00000000G  EF    9F 03192          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03198          CALLS   #3,PAS$WRITE_STRING
                  FFFFAA29   EF    9F 0319F          PUSHAB  C.ALA
                             1A    DD 031A5          PUSHL   #26
                  00000000G  EF    9F 031A7          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 031AD          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 031B4          PUSHAB  ANSI_RESET
                             04    DD 031BA          PUSHL   #4
                  00000000G  EF    9F 031BC          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 031C2          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 031C9          PUSHAB  CRLF
                             02    DD 031CF          PUSHL   #2
                  00000000G  EF    9F 031D1          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 031D7          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 031DE          PUSHAB  CRLF_SHIFT
                             06    DD 031E4          PUSHL   #6
                  00000000G  EF    9F 031E6          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 031EC          CALLS   #3,PAS$WRITE_STRING
                  FFFFA9F1   EF    9F 031F3          PUSHAB  C.ALB
                             3A    DD 031F9          PUSHL   #58
                  00000000G  EF    9F 031FB          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03201          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 03208          PUSHAB  CRLF_SHIFT
                             06    DD 0320E          PUSHL   #6
                  00000000G  EF    9F 03210          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03216          CALLS   #3,PAS$WRITE_STRING
                  FFFFAA03   EF    9F 0321D          PUSHAB  C.ALC
                             3B    DD 03223          PUSHL   #59
                  00000000G  EF    9F 03225          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 0322B          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 03232          PUSHAB  CRLF_SHIFT
                             06    DD 03238          PUSHL   #6
                  00000000G  EF    9F 0323A          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03240          CALLS   #3,PAS$WRITE_STRING
                  FFFFAA15   EF    9F 03247          PUSHAB  C.ALD
                             33    DD 0324D          PUSHL   #51
                  00000000G  EF    9F 0324F          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03255          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 0325C          PUSHAB  CRLF_SHIFT
                             06    DD 03262          PUSHL   #6
                  00000000G  EF    9F 03264          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 0326A          CALLS   #3,PAS$WRITE_STRING
                  FFFFAA1F   EF    9F 03271          PUSHAB  C.ALE
                             33    DD 03277          PUSHL   #51
                  00000000G  EF    9F 03279          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 0327F          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 03286          PUSHAB  CRLF_SHIFT
                             06    DD 0328C          PUSHL   #6
                  00000000G  EF    9F 0328E          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 03294          CALLS   #3,PAS$WRITE_STRING
                  FFFFAA29   EF    9F 0329B          PUSHAB  C.ALF
                             2F    DD 032A1          PUSHL   #47
                  00000000G  EF    9F 032A3          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 032A9          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 032B0          PUSHAB  CRLF_SHIFT
                             06    DD 032B6          PUSHL   #6
                  00000000G  EF    9F 032B8          PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF             03    FB 032BE          CALLS    #3,PAS$WRITE_STRING
                FFFFAA2F  EF    9F 032C5          PUSHAB   C.ALG
                          3C    DD 032CB          PUSHL    #60
                00000000G EF    9F 032CD          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 032D3          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 032DA          PUSHAB   CRLF_SHIFT
                          06    DD 032E0          PUSHL    #6
                00000000G EF    9F 032E2          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 032E8          CALLS    #3,PAS$WRITE_STRING
                FFFFAA41  EF    9F 032EF          PUSHAB   C.ALH
                          34    DD 032F5          PUSHL    #52
                00000000G EF    9F 032F7          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 032FD          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 03304          PUSHAB   CRLF_SHIFT
                          06    DD 0330A          PUSHL    #6
                00000000G EF    9F 0330C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 03312          CALLS    #3,PAS$WRITE_STRING
                FFFFAA4B  EF    9F 03319          PUSHAB   C.ALI
                          38    DD 0331F          PUSHL    #56
                00000000G EF    9F 03321          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 03327          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 0332E          PUSHAB   CRLF_SHIFT
                          06    DD 03334          PUSHL    #6
                00000000G EF    9F 03336          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 0333C          CALLS    #3,PAS$WRITE_STRING
                FFFFAA59  EF    9F 03343          PUSHAB   C.ALJ
                          3C    DD 03349          PUSHL    #60
                00000000G EF    9F 0334B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 03351          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 03358          PUSHAB   CRLF_SHIFT
                          06    DD 0335E          PUSHL    #6
                00000000G EF    9F 03360          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 03366          CALLS    #3,PAS$WRITE_STRING
                FFFFAA6B  EF    9F 0336D          PUSHAB   C.ALK
                          3A    DD 03373          PUSHL    #58
                00000000G EF    9F 03375          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 0337B          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 03382          PUSHAB   CRLF_SHIFT
                          06    DD 03388          PUSHL    #6
                00000000G EF    9F 0338A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 03390          CALLS    #3,PAS$WRITE_STRING
                FFFFAA7D  EF    9F 03397          PUSHAB   C.ALL
                          29    DD 0339D          PUSHL    #41
                00000000G EF    9F 0339F          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 033A5          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 033AC          PUSHAB   CRLF
                          02    DD 033B2          PUSHL    #2
                00000000G EF    9F 033B4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 033BA          CALLS    #3,PAS$WRITE_STRING
                00000000G EF    9F 033C1          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             01    FB 033C7          CALLS    #1,PAS$WRITELN2
                          00V   11 033CE          BRB      159$
                00000000G EF    9F 033D0  158$:   PUSHAB   SHIFT                                   ; 1474
                          04    DD 033D6          PUSHL    #4
                00000000G EF    9F 033D8          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03    FB 033DE          CALLS    #3,PAS$WRITE_STRING
                FFFFAA5B  EF    9F 033E5          PUSHAB   C.ALM
```

```
                                26  DD 033EB          PUSHL    #38
                     00000000G  EF  9F 033ED          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 033F3          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 033FA          PUSHAB   CRLF_SHIFT
                                06  DD 03400          PUSHL    #6
                     00000000G  EF  9F 03402          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 03408          CALLS    #3,PAS$WRITE_STRING
                     FFFFAA59   EF  9F 0340F          PUSHAB   C.ALN
                                21  DD 03415          PUSHL    #33
                     00000000G  EF  9F 03417          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 0341D          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 03424          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 01  FB 0342A          CALLS    #1,PAS$WRITELN2
                             0000V  31 03431  159$:   BRW      165$
00V00000000G EF                 00  E0 03434  160$:   BBS      #0,FULL_PROMPT,162$                       ; 1487
03 00000000G EF                 00  E0 0343C          BBS      #0,TEMP_FULL_PROMPT,.+3
                             0000V  31 03444          BRW      163$
                     00000000G  EF  9F 03447  162$:   PUSHAB   SHIFT                                     ; 1491
                                04  DD 0344D          PUSHL    #4
                     00000000G  EF  9F 0344F          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 03455          CALLS    #3,PAS$WRITE_STRING
                     FFFFAA2E   EF  9F 0345C          PUSHAB   C.ALO
                                02  DD 03462          PUSHL    #2
                     00000000G  EF  9F 03464          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 0346A          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 03471          PUSHAB   ANSI_REVERSE
                                04  DD 03477          PUSHL    #4
                     00000000G  EF  9F 03479          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 0347F          CALLS    #3,PAS$WRITE_STRING
                     FFFFAA06   EF  9F 03486          PUSHAB   C.ALP
                                1C  DD 0348C          PUSHL    #28
                     00000000G  EF  9F 0348E          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 03494          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 0349B          PUSHAB   ANSI_RESET
                                04  DD 034A1          PUSHL    #4
                     00000000G  EF  9F 034A3          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 034A9          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 034B0          PUSHAB   CRLF
                                02  DD 034B6          PUSHL    #2
                     00000000G  EF  9F 034B8          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 03  FB 034BE          CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF  9F 034C5          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                 01  FB 034CB          CALLS    #1,PAS$WRITELN2
                     000000FC   8F  DD 034D2          PUSHL    #252                                      ; 1502
                                07  DD 034D8          PUSHL    #7
                                04  DD 034DA          PUSHL    #4
                     00000000G  EF  9F 034DC          PUSHAB   SYS$OUTPUT_NAME
                                0B  DD 034E2          PUSHL    #11
                                01  DD 034E4          PUSHL    #1
                     00000000G  EF  9F 034E6          PUSHAB   FDL_DEST
  00000000G  EF                 07  FB 034EC          CALLS    #7,PAS$OPEN2
                     00000000G  EF  9F 034F3          PUSHAB   FDL_DEST                                  ; 1504
  00000000G  EF                 01  FB 034F9          CALLS    #1,PAS$REWRITE2
  00000000G  EF                 00  FB 03500          CALLS    #0,SHOW_ALL_PRIMARIES                     ; 1506
                     00000000G  EF  9F 03507          PUSHAB   FDL_DEST                                  ; 1508
  00000000G  EF                 01  FB 0350D          CALLS    #1,PAS$CLOSE2
                               00V  11 03514          BRB      165$
```

```
                        00000000G   EF    9F 03516 163$:   PUSHAB  SHIFT                                   ; 1514
                                    04    DD 0351C         PUSHL   #4
                        00000000G   EF    9F 0351E         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 03524         CALLS   #3,PAS$WRITE_STRING
                        FFFFA97D    EF    9F 0352B         PUSHAB  C.ALQ
                                    34    DD 03531         PUSHL   #52
                        00000000G   EF    9F 03533         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 03539         CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF    9F 03540         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             01    FB 03546         CALLS   #1,PAS$WRITELN2
                        00000000G   EF    9F 0354D 165$:   PUSHAB  SHIFT                                   ; 1522
                                    04    DD 03553         PUSHL   #4
                        00000000G   EF    9F 03555         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 0355B         CALLS   #3,PAS$WRITE_STRING
                        FFFFA97A    EF    9F 03562         PUSHAB  C.ALR
                                    21    DD 03568         PUSHL   #33
                        00000000G   EF    9F 0356A         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 03570         CALLS   #3,PAS$WRITE_STRING
                     50 00000000G   EF    9A 03577         MOVZBL  DEFAULT_PRIMARY,R0
                     7E 00000000GEF40     9A 0357E         MOVZBL  PRIMARY_WIDTH[R0],-(SP)
                     7E 00000000G   EF    9A 03586         MOVZBL  DEFAULT_PRIMARY,-(SP)
                        FFFFA973    EF    9F 0358D         PUSHAB  C.ALS
                        00000000G   EF    9F 03593         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             04    FB 03599         CALLS   #4,PAS$WRITE_ENUMERATED
                     50 00000000G   EF    9A 035A0         MOVZBL  DEFAULT_PRIMARY,R0                      ; 1525
                     10             50    D1 035A7         CMPL    R0,#16
                                    00V   1E 035AA         BGEQU   167$
       00VFFFFAA2A   EF             50    E1 035AC         BBC     R0,C.ALT,167$
                                    01    DD 035B4         PUSHL   #1                                      ; 1527
                                    20    DD 035B6         PUSHL   #32
                        00000000G   EF    9F 035B8         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 035BE         CALLS   #3,PAS$WRITE_CHAR
                        00000000G   EF    9F 035C5         PUSHAB  DEFAULT_PRINUM
          00000000G  EF             01    FB 035CB         CALLS   #1,NUM_LEN
                                    50    DD 035D2         PUSHL   R0
                        00000000G   EF    DD 035D4         PUSHL   DEFAULT_PRINUM
                        00000000G   EF    9F 035DA         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 035E0         CALLS   #3,PAS$WRITE_INTEGER
                        FFFFA9F5    EF    9F 035E7 167$:   PUSHAB  C.ALU                                   ; 1529
                                    04    DD 035ED         PUSHL   #4
                        00000000G   EF    9F 035EF         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03    FB 035F5         CALLS   #3,PAS$WRITE_STRING
                                    00V   11 035FC         BRB     169$
                                             035FE 168$:
                                          04 035FE 169$:   RET                                             ; 1539

; Routine Size: 13823 bytes,    Routine Base: $CODE + 049C2

                                             00000 SPREAD_LOW_HIGH:                                        ; 1585
                                        0000 00000         .WORD   ^M<>
                     50          04   BC  D0 00002         MOVL    @4(R12),LO_LIM
                     5C          08   BC  D0 00006         MOVL    @8(R12),HI_LIM
       51 00000010G  EF 00000014G   EF    C3 0000A         SUBL3   IDATA+20,IDATA+16,R1                    ; 1592
                     05             51    D1 00016         CMPL    R1,#5
                                    00V   18 00019         BGEQ    8$
                     50 00000014G   EF    D1 0001B 2$:     CMPL    IDATA+20,LO_LIM                         ; 1598
                                    00V   15 00022         BLEQ    4$
```

```
                                           00000014G  EF   D7 00024         DECL    IDATA+20                    ; 1600
                                        5C 00000010G  EF   D1 0002A 4$:     CMPL    IDATA+16,HI_LIM             ; 1602
                                                      00V  18 00031         BGEQ    6$
                                           00000010G  EF   D6 00033         INCL    IDATA+16                    ; 1604
                          51 00000010G  EF 00000014G  EF   C3 00039 6$:     SUBL3   IDATA+20,IDATA+16,R1
                                        04            51   D1 00045         CMPL    R1,#4
                                                      D1   15 00048         BLEQ    2$
                                                           04 0004A 8$:     RET                                 ; 1610

; Routine Size: 75 bytes,    Routine Base: $CODE + 07FC1

                                                              00000 AUTO_SCALE:                                 ; 1656
                                                         0004 00000         .WORD   ^M<R2>
                                        50        04  BC   D0 00002         MOVL    @4(R12),LOW_LIMIT
                                        5C        08  BC   D0 00006         MOVL    @8(R12),HIGH_LIMIT
                             00000000G  EF 00000010G  EF   D0 0000A         MOVL    IDATA+16,TEMP_INT2          ; 1664
                          51 00000010G  EF 00000014G  EF   C3 00015         SUBL3   IDATA+20,IDATA+16,R1        ; 1665
                                        51            51   4E 00021         CVTLF   R1,R1
               00000000G  EF            51            24   47 00024         DIVF3   #^F12.0,R1,TEMP_REAL
                             00000018G  EF 00000000G  EF   4A 0002C         CVTFL   TEMP_REAL,IDATA+24          ; 1667
                          51 00000010G  EF 00000014G  EF   C3 00037         SUBL3   IDATA+20,IDATA+16,R1        ; 1669
            51            51            00            00   7A 00043         EMUL    #0,#0,R1,R1
            51            51            51            0C   7B 00048         EDIV    #12,R1,R1,R1
                                                      51   D5 0004D         TSTL    R1
                                                      00V  18 0004F         BGEQ    1$
                                        51            0C   C0 00051         ADDL2   #12,R1
                                                      51   D5 00054 1$:     TSTL    R1
                                                      00V  15 00056         BLEQ    4$
                                           00000018G  EF   D6 00058         INCL    IDATA+24                    ; 1671
                          51 00000018G  EF            0C   C5 0005E 4$:     MULL3   #12,IDATA+24,R1             ; 1678
               00000010G  EF 00000014G  EF            51   C1 00066         ADDL3   R1,IDATA+20,IDATA+16
                                                      00V  11 00072         BRB     6$                          ; 1684
                                           00000014G  EF   D7 00074 5$:     DECL    IDATA+20                    ; 1688
                                           00000010G  EF   D7 0007A         DECL    IDATA+16                    ; 1689
                                        5C 00000010G  EF   D1 00080 6$:     CMPL    IDATA+16,HIGH_LIMIT
                                                      EB   14 00087         BGTR    5$
                                                      00V  11 00089         BRB     9$                          ; 1696
                                           00000014G  EF   D6 0008B 8$:     INCL    IDATA+20                    ; 1700
                                           00000010G  EF   D6 00091         INCL    IDATA+16                    ; 1701
                                        50 00000014G  EF   D1 00097 9$:     CMPL    IDATA+20,LOW_LIMIT
                                                      EB   19 0009E         BLSS    8$
                                                      00V  19 000A0         BLSS    12$                         ; 1708
                                        5C 00000010G  EF   D1 000A2         CMPL    IDATA+16,HIGH_LIMIT
                                                      00V  15 000A9         BLEQ    13$
                                           00000018G  EF   D7 000AB 12$:    DECL    IDATA+24                    ; 1710
                                        50 00000014G  EF   D1 000B1 13$:    CMPL    IDATA+20,LOW_LIMIT
                                                      A4   19 000B8         BLSS    4$
                                        5C 00000010G  EF   D1 000BA         CMPL    IDATA+16,HIGH_LIMIT
                                                      9B   14 000C1         BGTR    4$
                             00000000G  EF 00000010G  EF   D1 000C3         CMPL    IDATA+16,TEMP_INT2          ; 1717
                                                      00V  18 000CE         BGEQ    17$
                          50 00000000G  EF 00000010G  EF   C3 000D0         SUBL3   IDATA+16,TEMP_INT2,R0       ; 1721
                             00000014G  EF            50   C0 000DC         ADDL2   R0,IDATA+20
                          50 00000000G  EF 00000010G  EF   C3 000E3         SUBL3   IDATA+16,TEMP_INT2,R0       ; 1723
                             00000010G  EF            50   C0 000EF         ADDL2   R0,IDATA+16
                                                           04 000F6 17$:    RET                                 ; 1728
```

```
; Routine Size: 247 bytes,    Routine Base: $CODE + 0800C

                                                             00000 ALT_SOURCE:                                                ; 1780
                                                        00FC 00000             .WORD   ^M<R2,R3,R4,R5,R6,R7>
                                       5E             14  C2 00002             SUBL2   #20,SP
                                       52        04   BC  90 00005             MOVB    @4(R12),OBJ_TYP
                                       53        08   BC  90 00009             MOVB    @8(R12),PRIM
                                       54        0C   BC  D0 0000D             MOVL    @12(R12),PRIMNUM
                                       55        10   BC  90 00011             MOVB    @16(R12),SECO
                                       56        14   BC  D0 00015             MOVL    @20(R12),SECONUM
                                       5C        18   BC  90 00019             MOVB    @24(R12),AN_FLAG
                                       2E 00000000G   EF  D1 0001D             CMPL    QTAB_OFFSET,#46                            ; 1794
                                                     00V  12 00024             BNEQ    2$
                                          00000000G   EF  94 00026             CLRB    GLOBAL_SET                                 ; 1796
                         00V00000000G  EF             00  E0 0002C 2$:     BBS     #0,VISIBLE_QUESTION,4$                     ; 1803
                         00V00000000G  EF             00  E0 00034             BBS     #0,OPTIMIZING,6$
                             00000100  8F 00000000G   EF  D1 0003C 4$:     CMPL    QTAB_OFFSET,#256
                                                     00V  1E 00047             BGEQU   5$
                          00VFFFFA850  EF 00000000G   EF  E0 00049             BBS     QTAB_OFFSET,C.ALV,6$
                                       57             01  90 00055 5$:     MOVB    #1,ALT_SOURCE                              ; 1812
                                                   0000V  31 00058             BRW     32$
                         03 00000000G  EF             00  E0 0005B 6$:     BBS     #0,OPTIMIZING,.+3                          ; 1816
                                                   0000V  31 00063             BRW     32$
                                       00V            5C  E9 00066             BLBC    AN_FLAG,9$                                 ; 1823
                            00000000G  EF             00  FB 00069             CALLS   #0,POINT_AT_ANALYSIS                       ; 1825
                                   FC  AD             56  D0 00070 9$:     MOVL    SECONUM,-4(FP)                             ; 1827
                                                 FC   AD  9F 00074             PUSHAB  -4(FP)
                                   F8  AD             55  90 00077             MOVB    SECO,-8(FP)
                                                 F8   AD  9F 0007B             PUSHAB  -8(FP)
                                   F4  AD             54  D0 0007E             MOVL    PRIMNUM,-12(FP)
                                                 F4   AD  9F 00082             PUSHAB  -12(FP)
                                   F0  AD             53  90 00085             MOVB    PRIM,-16(FP)
                                                 F0   AD  9F 00089             PUSHAB  -16(FP)
                                   EC  AD             52  90 0008C             MOVB    OBJ_TYP,-20(FP)
                                                 EC   AD  9F 00090             PUSHAB  -20(FP)
                            00000000G  EF             05  FB 00093             CALLS   #5,FIND_OBJECT
                                       03             50  E8 0009A             BLBS    R0,.+3
                                                   0000V  31 0009D             BRW     24$
                                                      57  94 000A0             CLRB    ALT_SOURCE                                 ; 1831
                         35            08 00000000G   EF  CF 000A2             CASEL   QTAB_OFFSET,#11,#53                        ; 1833
                                                   0000V     000AA             .DISPL  11$
                                                   0000V     000AC             .DISPL  11$
                                                   0000V     000AE             .DISPL  11$
                                                   006C      000B0             .DISPL  108
                                                   006C      000B2             .DISPL  108
                                                   0000V     000B4             .DISPL  13$
                                                   0000V     000B6             .DISPL  13$
                                                   0000V     000B8             .DISPL  13$
                                                   0000V     000BA             .DISPL  18$
                                                   0000V     000BC             .DISPL  18$
                                                   0000V     000BE             .DISPL  18$
                                                   006C      000C0             .DISPL  108
                                                   006C      000C2             .DISPL  108
                                                   006C      000C4             .DISPL  108
                                                   006C      000C6             .DISPL  108
                                                   006C      000C8             .DISPL  108
                                                   006C      000CA             .DISPL  108
                                   0000V      000CC          .DISPL  18$
                                   006C       000CE          .DISPL  108
                                   0000V      000D0          .DISPL  18$
                                   006C       000D2          .DISPL  108
                                   0000V      000D4          .DISPL  13$
                                   006C       000D6          .DISPL  108
                                   006C       000D8          .DISPL  108
                                   006C       000DA          .DISPL  108
                                   006C       000DC          .DISPL  108
                                   006C       000DE          .DISPL  108
                                   006C       000E0          .DISPL  108
                                   0000V      000E2          .DISPL  14$
                                   0000V      000E4          .DISPL  13$
                                   006C       000E6          .DISPL  108
                                   006C       000E8          .DISPL  108
                                   0000V      000EA          .DISPL  13$
                                   006C       000EC          .DISPL  108
                                   006C       000EE          .DISPL  108
                                   0000V      000F0          .DISPL  17$
                                   006C       000F2          .DISPL  108
                                   006C       000F4          .DISPL  108
                                   006C       000F6          .DISPL  108
                                   006C       000F8          .DISPL  108
                                   0000V      000FA          .DISPL  15$
                                   006C       000FC          .DISPL  108
                                   006C       000FE          .DISPL  108
                                   0000V      00100          .DISPL  16$
                                   0000V      00102          .DISPL  14$
                                   006C       00104          .DISPL  108
                                   0000V      00106          .DISPL  13$
                                   0000V      00108          .DISPL  13$
                                   0000V      0010A          .DISPL  13$
                                   006C       0010C          .DISPL  108
                                   006C       0010E          .DISPL  108
                                   0000V      00110          .DISPL  13$
                                   006C       00112          .DISPL  108
                                   0000V      00114          .DISPL  14$
                                   0000V  31  00116          BRW     22$
            50 00000000G   EF         D0  00119  11$:    MOVL    QTAP_OFFSET,R0                            ; 1841
               FFFFFFB0GEF40          7F  00120          PUSHAQ  QDATA-80[R0]
            50 00000000G   EF         D0  00127          MOVL    DEF_CURRENT,R0
                      11   A0         9F  0012E          PUSHAB  17(R0)
00000000G   EF                 02     FB  00131          CALLS   #2,LIB$SCOPY_DXDX
            50 00000000G   EF         D0  00138          MOVL    QTAB_OFFSET,R0                            ; 1842
FFFFFFF9GEF40                  01     90  0013F          MOVB    #1,BDATA-7[R0]
                                   0000V  31  00147          BRW     30$
            50 00000000G   EF         D0  0014A  13$:    MOVL    QTAB_OFFSET,R0                            ; 1859
            52 00000000G   EF         D0  00151          MOVL    DEF_CURRENT,R2
00000000GEF40             27   A2     D0  00158          MOVL    39(R2),IDATA[R0]
            50 00000000G   EF         D0  00161          MOVL    QTAB_OFFSET,R0                            ; 1860
00000000G   EF 00000000GEF40          D0  00168          MOVL    IDATA[R0],INPUT_VALUE
                                   0000V  31  00174          BRW     30$
            50 00000000G   EF         D0  00177  14$:    MOVL    QTAB_OFFSET,R0                            ; 1870
            52 00000000G   EF         D0  0017E          MOVL    DEF_CURRENT,R2
00000000GEF40             23   A2     D0  00185          MOVL    35(R2),IDATA[R0]
            50 00000000G   EF         D0  0018E          MOVL    QTAB_OFFSET,R0                            ; 1871
00000000G   EF 00000000GEF40          D0  00195          MOVL    IDATA[R0],INPUT_VALUE
```

```
                                        0000V  31 001A1          BRW     30$
                        50 00000000G     EF    D0 001A4 15$:     MOVL    QTAB_OFFSET,R0                               ; 1879
                        52 00000000G     EF    D0 001AB          MOVL    DEF_CURRENT,R2
               00000000GEF40        27    A2    D0 001B2          MOVL    39(R2),IDATA[R0]
                        50 00000000G     EF    D0 001BB          MOVL    QTAB_OFFSET,R0                               ; 1880
               00000000G   EF 00000000GEF40    D0 001C2          MOVL    IDATA[R0],INPUT_VALUE
                        50 00000000G     EF    D0 001CE          MOVL    SEGMENT_NUMBER,R0                            ; 1881
               00000000GEF40 00000000G   EF    D0 001D5          MOVL    INPUT_VALUE,SEGMENT_POSITION[R0]
                                        0000V  31 001E1          BRW     30$
                        50 00000000G     EF    D0 001E4 16$:     MOVL    QTAB_OFFSET,R0                               ; 1889
                        52 00000000G     EF    D0 001EB          MOVL    DEF_CURRENT,R2
               00000000GEF40        27    A2    D0 001F2          MOVL    39(R2),IDATA[R0]
                        50 00000000G     EF    D0 001FB          MOVL    QTAB_OFFSET,R0                               ; 1890
               00000000G   EF 00000000GEF40    D0 00202          MOVL    IDATA[R0],INPUT_VALUE
                        50 00000000G     EF    D0 0020E          MOVL    SEGMENT_NUMBER,R0                            ; 1891
               00000000GEF40 00000000G   EF    D0 00215          MOVL    INPUT_VALUE,SEGMENT_LENGTH[R0]
                                        0000V  31 00221          BRW     30$
                        50 00000000G     EF    D0 00224 17$:     MOVL    QTAB_OFFSET,R0                               ; 1899
                        52 00000000G     EF    D0 0022B          MOVL    DEF_CURRENT,R2
               00000000GEF40        27    A2    D0 00232          MOVL    39(R2),IDATA[R0]
                        50 00000000G     EF    D0 0023B          MOVL    QTAB_OFFSET,R0                               ; 1900
               00000000G   EF 00000000GEF40    D0 00242          MOVL    IDATA[R0],INPUT_VALUE
               00000000G   EF              01    90 0024E          MOVB    #1,GLOBAL_SET                                ; 1901
                                        0000V  31 00255          BRW     30$
                        50 00000000G     EF    D0 00258 18$:     MOVL    QTAB_OFFSET,R0                               ; 1913
                        52 00000000G     EF    D0 0025F          MOVL    DEF_CURRENT,R2
               FFFFFFF9GEF40        2B    A2    90 00266          MOVB    43(R2),BDATA-7[R0]
                        50 00000000G     EF    D0 0026F          MOVL    DEF_CURRENT,R0                               ; 1915
            00V       2B   A0              00    E1 00276          BBC     #0,43(R0),20$
               00000000G   EF              01    D0 0027B          MOVL    #1,INPUT_VALUE                               ; 1917
                                          00V  11 00282          BRB     30$
                           00000000G     EF    D4 00284 20$:     CLRL    INPUT_VALUE                                  ; 1921
                                          00V  11 0028A          BRB     30$
                                          00V  11 0028C 22$:     BRB     30$
                        57                 01    90 0028E 24$:     MOVB    #1,ALT_SOURCE                                ; 1940
            00V00000000G   EF              00    E1 00291          BBC     #0,AUTO_TUNE,27$                             ; 1946
               00000100   8F 00000000G     EF    D1 00299          CMPL    QTAB_OFFSET,#256
                                          00V  1E 002A4          BGEQU   27$
            00VFFFFA613   EF 00000000G     EF    E1 002A6          BBC     QTAB_OFFSET,C.ALW,27$
                                           00    DD 002B2          PUSHL   #0                                           ; 1953
                                           00    DD 002B4          PUSHL   #0
                                           00    DD 002B6          PUSHL   #0
                           00B3801C        8F    DD 002B8          PUSHL   #11763740
               00000000G   EF              04    FB 002BE          CALLS   #4,LIB$STOP
               00000100   8F 00000000G     EF    D1 002C5 27$:     CMPL    QTAB_OFFSET,#256                             ; 1955
                                          00V  1E 002D0          BGEQU   30$
            00VFFFFA607   EF 00000000G     EF    E1 002D2          BBC     QTAB_OFFSET,C.ALX,30$
                                           57    94 002DE          CLRB    ALT_SOURCE                                   ; 1960
                        50 00000000G     EF    D0 002E0          MOVL    QTAB_OFFSET,R0                               ; 1961
                           FFFFFFE0GEF40    D4 002E7          CLRF    RDATA-32[R0]
               00000000G   EF              00    FB 002EE 30$:     CALLS   #0,POINT_AT_DEFINITION                       ; 1967
                        50                 57    90 002F5 32$:     MOVB    ALT_SOURCE,R0                                ; 1971
                                                 04 002F8          RET

; Routine Size: 761 bytes,    Routine Base: $CODE + 08103

                                                    00000 PRE_PROCESS:                                                ; 2016
                                          007C 00000           .WORD   ^M<R2,R3,R4,R5,R6>
                         5C        01       90 00002           MOVB    #1,PRE_PROCESS                                  ; 2028
         3B              0B 00000000G   EF  CF 00005           CASEL   QTAB_OFFSET,#11,#59                             ; 2030
                                   0000V       0000D           .DISPL  129$
                                   0000V       0000F           .DISPL  132$
                                   0000V       00011           .DISPL  135$
                                   0000V       00013           .DISPL  138$
                                   0000V       00015           .DISPL  138$
                                   0000V       00017           .DISPL  17$
                                   0000V       00019           .DISPL  21$
                                   0000V       0001B           .DISPL  25$
                                   0000V       0001D           .DISPL  64$
                                   0000V       0001F           .DISPL  69$
                                   0000V       00021           .DISPL  75$
                                   0000V       00023           .DISPL  141$
                                   0000V       00025           .DISPL  103$
                                   0000V       00027           .DISPL  125$
                                   0078        00029           .DISPL  120
                                   0000V       0002B           .DISPL  81$
                                   0000V       0002D           .DISPL  85$
                                   0000V       0002F           .DISPL  47$
                                   0000V       00031           .DISPL  39$
                                   0000V       00033           .DISPL  51$
                                   0078        00035           .DISPL  120
                                   0000V       00037           .DISPL  56$
                                   0000V       00039           .DISPL  183$
                                   0000V       0003B           .DISPL  110$
                                   0078        0003D           .DISPL  120
                                   0000V       0003F           .DISPL  8$
                                   0000V       00041           .DISPL  147$
                                   0078        00043           .DISPL  120
                                   0000V       00045           .DISPL  186$
                                   0000V       00047           .DISPL  191$
                                   0078        00049           .DISPL  120
                                   0000V       0004B           .DISPL  229$
                                   0000V       0004D           .DISPL  196$
                                   0078        0004F           .DISPL  120
                                   0078        00051           .DISPL  120
                                   0000V       00053           .DISPL  91$
                                   0078        00055           .DISPL  120
                                   0000V       00057           .DISPL  92$
                                   0078        00059           .DISPL  120
                                   0000V       0005B           .DISPL  8$
                                   0000V       0005D           .DISPL  29$
                                   0000V       0005F           .DISPL  12$
                                   0078        00061           .DISPL  120
                                   0000V       00063           .DISPL  163$
                                   0000V       00065           .DISPL  195$
                                   0000V       00067           .DISPL  115$
                                   0000V       00069           .DISPL  200$
                                   0000V       0006B           .DISPL  205$
                                   0000V       0006D           .DISPL  80$
                                   0000V       0006F           .DISPL  55$
                                   0078        00071           .DISPL  120
                                   0000V       00073           .DISPL  178$
                                   0078        00075           .DISPL  120
                                   0000V       00077           .DISPL  223$
```

```
                                                   0078      00079         .DISPL  120
                                                   0078      0007B         .DISPL  120
                                                   0078      0007D         .DISPL  120
                                                   0000V     0007F         .DISPL  204$
                                                   0078      00081         .DISPL  120
                                                   0000V     00083         .DISPL  1$
                                                   0000V  31 00085         BRW     288$
                                                     50   94 00088 1$:     CLRB    R0                                      ; 2034
                         51 00000000G  EF            19   C5 0008A         MULL3   #25,QTAB_OFFSET,R1
                                       51 FFFFFEF2GEF41   9E 00092         MOVAB   QTAB-270[R1],R1
                            00000100   8F            61   D1 0009A         CMPL    (R1),#256
                                                     00V  1E 000A1         BGEQU   3$
                         00VFFFFA561   EF            61   E1 000A3         BBC     (R1),C.ALY,3$
                                                     50   96 000AB         INCB    R0
                                                     52   94 000AD 3$:     CLRB    R2
                                          00000084G  EF   D5 000AF         TSTL    IDATA+132
                                                     00V  13 000B5         BEQL    5$
                                                     52   96 000B7         INCB    R2
                                       52            50   8A 000B9 5$:     BICB2   R0,R2
                                       00V           52   E9 000BC         BLBC    R2,7$
                                       61            05   D0 000BF         MOVL    #5,(R1)                                 ; 2041
                                                   0000V  31 000C2 7$:     BRW     289$
                                          00000014G  EF   D5 000C5 8$:     TSTL    IDATA+20                                ; 2046
                                                     00V  12 000CB         BNEQ    10$
                            00000000G  EF 000186A0   8F   D0 000CD         MOVL    #100000,DEF                             ; 2048
                                                   0000V  31 000D8         BRW     289$
              00000000G  EF 00000014G  EF            32   C5 000DB 10$:    MULL3   #50,IDATA+20,DEF                        ; 2052
                                                   0000V  31 000E7         BRW     289$
                                          000000E4G  EF   D5 000EA 12$:    TSTL    IDATA+228                               ; 2061
                                                     00V  13 000F0         BEQL    14$
000000E4G  EF        FF  8F            08            00   ED 000F2         CMPZV   #0,#8,#^XFF,IDATA+228
                                                     00V  18 000FC         BGEQ    15$
                            00000000G  EF       FF   8F   9A 000FE 14$:    MOVZBL  #255,MAX_KEY_SIZE                       ; 2067
                                                     00V  11 00106         BRB     16$
                            00000000G  EF 000000E4G  EF   D0 00108 15$:    MOVL    IDATA+228,MAX_KEY_SIZE                  ; 2071
                         51 00000000G  EF            19   C5 00113 16$:    MULL3   #25,QTAB_OFFSET,RT                      ; 2073
              FFFFFEFAGEF41 00000000G  EF            04   28 0011B         MOVC3   #4,MAX_KEY_SIZE,QTAB-262[R1]
                         50 00000000G  EF            19   C5 00128         MULL3   #25,QTAB_OFFSET,R0                      ; 2074
              FFFFFF13GEF40 00000000G  EF            04   28 00130         MOVC3   #4,MAX_KEY_SIZE,QTAB-237[R0]
                         50 00000000G  EF            19   C5 0013D         MULL3   #25,QTAB_OFFSET,R0                      ; 2075
              FFFFFF0BGEF40 00000000G  EF            04   28 00145         MOVC3   #4,MAX_KEY_SIZE,QTAB-245[R0]
                                                   0000V  31 00152         BRW     289$
                                                     5C   94 00155 17$:    CLRB    PRE_PROCESS                             ; 2083
                                       50 00000000G  EF   D0 00157         MOVL    QTAB_OFFSET,R0                          ; 2084
                                          00000000GEF40   D4 0015E         CLRL    IDATA[R0]
                         03 00000033G  EF            00   E0 00165         BBS     #0,VDATA+51,.+3                         ; 2086
                                                   0000V  31 0016D         BRW     289$
                                       02 000000F8G  EF   D1 00170         CMPL    IDATA+248,#2
                                                     03   14 00177         BGTR    .+3
                                                   0000V  31 00179         BRW     289$
                                                01   8F   9F 0017C         PUSHAB  #1                                      ; 2092
                                          00000000   8F   DF 0017F         PUSHAL  #0
                                                0B   8F   9F 00185         PUSHAB  #11
                                          00000084G  EF   9F 00188         PUSHAB  IDATA+132
                                                04   8F   9F 0018E         PUSHAB  #4
                                                01   8F   9F 00191         PUSHAB  #1
                                8103   CF            06   FB 00194         CALLS   #6,ALT_SOURCE
```

```
                           56              50   90 00199         MOVB    R0,RESULT
                                        0000V   31 0019C         BRW     289$
                                           5C   94 0019F 21$:    CLRB    PRE_PROCESS                                   ; 2101
                        50 00000000G       EF   D0 001A1         MOVL    QTAB_OFFSET,R0                                ; 2102
                             00000000GEF40     D4 001A8         CLRL    IDATA[R0]
                 03 00000033G      EF      00   E0 001AF         BBS     #0,VDATA+51,.+3                               ; 2104
                                        0000V   31 001B7         BRW     289$
                        02 000000F8G       EF   D1 001BA         CMPL    IDATA+248,#2
                                           03   14 001C1         BGTR    .+3
                                        0000V   31 001C3         BRW     289$
                                      01   8F   9F 001C6         PUSHAB  #1                                            ; 2110
                                00000000   8F   DF 001C9         PUSHAL  #0
                                      0C   8F   9F 001CF         PUSHAB  #12
                               00000084G   EF   9F 001D2         PUSHAB  IDATA+132
                                      04   8F   9F 001D8         PUSHAB  #4
                                      01   8F   9F 001DB         PUSHAB  #1
                      8103         CF      06   FB 001DE         CALLS   #6,ALT_SOURCE
                                   56      50   90 001E3         MOVB    R0,RESULT
                                        0000V   31 001E6         BRW     289$
                                           5C   94 001E9 25$:    CLRB    PRE_PROCESS                                   ; 2119
                        50 00000000G       EF   D0 001EB         MOVL    QTAB_OFFSET,R0                                ; 2120
                             00000000GEF40     D4 001F2         CLRL    IDATA[R0]
                 03 00000033G      EF      00   E0 001F9         BBS     #0,VDATA+51,.+3                               ; 2122
                                        0000V   31 00201         BRW     289$
                        02 000000F8G       EF   D1 00204         CMPL    IDATA+248,#2
                                           03   14 0020B         BGTR    .+3
                                        0000V   31 0020D         BRW     289$
                                      01   8F   9F 00210         PUSHAB  #1                                            ; 2128
                                00000000   8F   DF 00213         PUSHAL  #0
                                      12   8F   9F 00219         PUSHAB  #18
                               00000084G   EF   9F 0021C         PUSHAB  IDATA+132
                                      04   8F   9F 00222         PUSHAB  #4
                                      01   8F   9F 00225         PUSHAB  #1
                      8103         CF      06   FB 00228         CALLS   #6,ALT_SOURCE
                                   56      50   90 0022D         MOVB    R0,RESULT
                                        0000V   31 00230         BRW     289$
                 00V00000013G      EF      00   E1 00233 29$:    BBC     #0,BDATA+19,34$                               ; 2140
                                           50   D4 0023B         CLRL    TEMP_KEY_SIZE                                 ; 2144
                                           51   D4 0023D         CLRL    R1                                            ; 2146
                    00000000G      EF      51   D0 0023F 31$:    MOVL    R1,TEMP_INT2
                                   52 00000000G EF   D0 00246    MOVL    TEMP_INT2,R2                                  ; 2150
                 00V00000000GEF42          00   E1 0024D         BBC     #0,SEGMENT_WANTED[R2],33$
                                   52 00000000G EF   D0 00256    MOVL    TEMP_INT2,R2                                  ; 2152
                                   50 00000000GEF42  C0 0025D    ADDL2   SEGMENT_LENGTH[R2],TEMP_KEY_SIZE
                 D6                51      07   F3 00265 33$:    AOBLEQ  #7,R1,3T$
                                          00V   11 00269         BRB     35$
                        50 000000D8G       EF   D0 0026B 34$:    MOVL    IDATA+216,TEMP_KEY_SIZE                       ; 2161
                           000000E4G       EF   D5 00272 35$:    TSTL    IDATA+228                                     ; 2163
                                          00V   12 00278         BNEQ    37$
       00000000G   EF 00000000G    EF      50   C3 0027A         SUBL3   TEMP_KEY_SIZE,CUR_MAX_REC,MAX_KEY_POSITION   ; 2165
                                          00V   11 00286         BRB     38$
       00000000G   EF 000000E4G    EF      50   C3 00288 37$:    SUBL3   TEMP_KEY_SIZE,IDATA+228,MAX_KEY_POSITION     ; 2169
                   50 00000000G    EF      19   C5 00294 38$:    MULL3   #25,QTAB_OFFSET,R0                            ; 2173
       FFFFFEFAGEF40 00000000G     EF      04   28 0029C         MOVC3   #4,MAX_KEY_POSITION,QTAB-262[R0]
                                      00   8F   9F 002A9         PUSHAB  #0                                            ; 2175
                               00000000G   EF   9F 002AC         PUSHAB  SEGMENT_NUMBER
                                      86   8F   9F 002B2         PUSHAB  #-122
```

```
                                          00000084G  EF   9F 002B5         PUSHAB  IDATA+132
                                                 0B  8F   9F 002BB         PUSHAB  #11
                                                 01  8F   9F 002BE         PUSHAB  #1
                                8103   CF            06   FB 002C1         CALLS   #6,ALT_SOURCE
                                       5C            50   90 002C6         MOVB    R0,PRE_PROCESS
                                                   0000V  31 002C9         BRW     289$
                                          00000084G  EF   D5 002CC 39$:    TSTL    IDATA+132                                  ; 2182
                                                     00V  13 002D2         BEQL    41$
                         00V00000012G  EF            00   E0 002D4         BBS     #0,VDATA+18,45$
                                          00000088G  EF   D5 002DC 41$:    TSTL    IDATA+136                                  ; 2188
                                                     00V  15 002E2         BLEQ    43$
                                       5C            01   90 002E4         MOVB    #1,PRE_PROCESS                             ; 2190
                                                   0000V  31 002E7         BRW     289$
                                       50 00000000G  EF   D0 002EA 43$:    MOVL    QTAB_OFFSET,R0                             ; 2196
                            FFFFFFF9GEF40            01   90 002F1         MOVB    #1,BDATA-7[R0]
                                                     5C   94 002F9         CLRB    PRE_PROCESS                                ; 2197
                                                   0000V  31 002FB         BRW     289$
                                                     5C   94 002FE 45$:    CLRB    PRE_PROCESS                                ; 2203
                                                   0000V  31 00300         BRW     289$
                                          00000084G  EF   D5 00303 47$:    TSTL    IDATA+132                                  ; 2207
                                                     00V  13 00309         BEQL    49$
                                                 00  8F   9F 0030B         PUSHAB  #0                                         ; 2209
                                           00000000  8F   DF 0030E         PUSHAL  #0
                                                 77  8F   9F 00314         PUSHAB  #119
                                          00000084G  EF   9F 00317         PUSHAB  IDATA+132
                                                 0B  8F   9F 0031D         PUSHAB  #11
                                                 01  8F   9F 00320         PUSHAB  #1
                                8103   CF            06   FB 00323         CALLS   #6,ALT_SOURCE
                                       5C            50   90 00328         MOVB    R0,PRE_PROCESS
                                                   0000V  31 0032B         BRW     289$
                                                     5C   94 0032E 49$:    CLRB    PRE_PROCESS                                ; 2216
                                       50 00000000G  EF   D0 00330         MOVL    QTAB_OFFSET,R0                             ; 2217
                                          FFFFFFF9GEF40   94 00337         CLRB    BDATA-7[R0]
                                                   0000V  31 0033E         BRW     289$
                         50 00000000G  EF            19   C5 00341 51$:    MULL3   #25,QTAB_OFFSET,R0                         ; 2225
                                       50 FFFFFFEF2GEF40  9E 00349         MOVAB   QTAB-270[R0],R0
                                          00000084G  EF   D5 00351         TSTL    IDATA+132
                                                     00V  12 00357         BNEQ    53$
                                                     60   D4 00359         CLRL    (R0)                                       ; 2227
                                                     00V  11 0035B         BRB     54$
                                       60            01   D0 0035D 53$:    MOVL    #1,(R0)                                    ; 2231
                                                 00  8F   9F 00360 54$:    PUSHAB  #0                                         ; 2233
                                           00000000  8F   DF 00363         PUSHAL  #0
                                                 7C  8F   9F 00369         PUSHAB  #124
                                          00000084G  EF   9F 0036C         PUSHAB  IDATA+132
                                                 0B  8F   9F 00372         PUSHAB  #11
                                                 01  8F   9F 00375         PUSHAB  #1
                                8103   CF            06   FB 00378         CALLS   #6,ALT_SOURCE
                                       5C            50   90 0037D         MOVB    R0,PRE_PROCESS
                                                   0000V  31 00380         BRW     289$
                                       50 00000000G  EF   92 00383 55$:    MCOMB   NUMBER_KEYS_SET,R0                         ; 2240
                         5C 00000000G  EF            50   89 0038A         BISB3   R0,VISIBLE_QUESTION,PRE_PROCESS
                                                   0000V  31 00392         BRW     289$
                         00V00000000G  EF            00   E1 00395 56$:    BBC     #0,OPTIMIZING,58$                          ; 2254
                                                 01  8F   9F 0039D         PUSHAB  #1                                         ; 2256
                                           00000000  8F   DF 003A0         PUSHAL  #0
                                                 4B  8F   9F 003A6         PUSHAB  #75
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                 00000000   8F   DF 003A9         PUSHAL  #0
                       08   8F   9F 003AF         PUSHAB  #8
                       01   8F   9F 003B2         PUSHAB  #1
       8103   CF            06   FB 003B5         CALLS   #6,ALT_SOURCE
              5C            50   90 003BA         MOVB    R0,PRE_PROCESS
                            00V  11 003BD         BRB     63$
                 00000084G  EF   D5 003BF 58$:    TSTL    IDATA+132                                 ; 2260
                            00V  13 003C5         BEQL    60$
00V00000017G  EF            00   E0 003C7         BBS     #0,VDATA+23,61$
              5C            01   90 003CF 60$:    MOVB    #1,PRE_PROCESS
                            00V  11 003D2         BRB     62$
                            5C   94 003D4 61$:    CLRB    PRE_PROCESS
                                    003D6 62$:
                          0000V  31 003D6 63$:    BRW     289$
                            5C   94 003D9 64$:    CLRB    PRE_PROCESS                               ; 2272
              50 00000000G  EF   D0 003DB         MOVL    QTAB_OFFSET,R0                            ; 2273
                 FFFFFFF9GEF40   94 003E2         CLRB    BDATA-7[R0]
00V00000033G  EF            00   E1 003E9         BBC     #0,VDATA+51,68$                           ; 2275
              02 000000F8G  EF   D1 003F1         CMPL    IDATA+248,#2
                            00V  15 003F8         BLEQ    68$
              21 000000DCG  EF   D1 003FA         CMPL    IDATA+220,#33
                            00V  12 00401         BNEQ    68$
                       00   8F   9F 00403         PUSHAB  #0                                        ; 2283
                 00000000   8F   DF 00406         PUSHAL  #0
                       7A   8F   9F 0040C         PUSHAB  #122
                 00000084G  EF   9F 0040F         PUSHAB  IDATA+132
                       0B   8F   9F 00415         PUSHAB  #11
                       01   8F   9F 00418         PUSHAB  #1
       8103   CF            06   FB 0041B         CALLS   #6,ALT_SOURCE
              5C            50   90 00420         MOVB    R0,PRE_PROCESS
                          0000V  31 00423 68$:    BRW     289$
                            5C   94 00426 69$:    CLRB    PRE_PROCESS                               ; 2292
              50 00000000G  EF   D0 00428         MOVL    QTAB_OFFSET,R0                            ; 2293
                 FFFFFFF9GEF40   94 0042F         CLRB    BDATA-7[R0]
03 00000033G  EF            00   E0 00436         BBS     #0,VDATA+51,.+3                           ; 2295
                          0000V  31 0043E         BRW     289$
              02 000000F8G  EF   D1 00441         CMPL    IDATA+248,#2
                            03   14 00448         BGTR    .+3
                          0000V  31 0044A         BRW     289$
              21 000000DCG  EF   D1 0044D         CMPL    IDATA+220,#33
                            03   13 00454         BEQL    .+3
                          0000V  31 00456         BRW     289$
                 00000084G  EF   D5 00459         TSTL    IDATA+132
                            03   13 0045F         BEQL    .+3
                          0000V  31 00461         BRW     289$
                       00   8F   9F 00464         PUSHAB  #0                                        ; 2305
                 00000000   8F   DF 00467         PUSHAL  #0
                       7B   8F   9F 0046D         PUSHAB  #123
                 00000084G  EF   9F 00470         PUSHAB  IDATA+132
                       0B   8F   9F 00476         PUSHAB  #11
                       01   8F   9F 00479         PUSHAB  #1
       8103   CF            06   FB 0047C         CALLS   #6,ALT_SOURCE
              5C            50   90 00481         MOVB    R0,PRE_PROCESS
                          0000V  31 00484         BRW     289$
                            5C   94 00487 75$:    CLRB    PRE_PROCESS                               ; 2314
              50 00000000G  EF   D0 00489         MOVL    QTAB_OFFSET,R0                            ; 2315
                 FFFFFFF9GEF40   94 00490         CLRB    BDATA-7[R0]
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```
00V00000033G  EF            00   E1 00497         BBC     #0,VDATA+51,79$                 ; 2317
              02 000000F8G  EF   D1 0049F         CMPL    IDATA+248,#2
                           00V   15 004A6         BLEQ    79$
              21 000000DCG  EF   D1 004A8         CMPL    IDATA+220,#33
                           00V   12 004AF         BNEQ    79$
                        00  8F   9F 004B1         PUSHAB  #0                              ; 2325
                  00000000  8F   DF 004B4         PUSHAL  #0
                        7E  8F   9F 004BA         PUSHAB  #126
                 00000084G  EF   9F 004BD         PUSHAB  IDATA+132
                        0B  8F   9F 004C3         PUSHAB  #11
                        01  8F   9F 004C6         PUSHAB  #1
       8103   CF            06   FB 004C9         CALLS   #6,ALT_SOURCE
              5C            50   90 004CE         MOVB    R0,PRE_PROCESS
                         0000V   31 004D1 79$:    BRW     289$
                            5C   94 004D4 80$:    CLRB    PRE_PROCESS                     ; 2334
                 000000ECG  EF   D4 004D6         CLRL    IDATA+236                       ; 2335
                        01  8F   9F 004DC         PUSHAB  #1                              ; 2337
                  00000000  8F   DF 004DF         PUSHAL  #0
                        11  8F   9F 004E5         PUSHAB  #17
                 00000084G  EF   9F 004E8         PUSHAB  IDATA+132
                        04  8F   9F 004EE         PUSHAB  #4
                        01  8F   9F 004F1         PUSHAB  #1
       8103   CF            06   FB 004F4         CALLS   #6,ALT_SOURCE
              56            50   90 004F9         MOVB    R0,RESULT
                         0000V   31 004FC         BRW     289$
                            50   D4 004FF 81$:    CLRL    R0                              ; 2346
   00000000G  EF            50   D0 00501 82$:    MOVL    R0,TEMP_INT2
              51 00000000G  EF   D0 00508         MOVL    TEMP_INT2,R1                    ; 2350
                 00000000GEF41   94 0050F         CLRB    SEGMENT_WANTED[R1]
              51 00000000G  EF   D0 00516         MOVL    TEMP_INT2,R1                    ; 2351
                 00000000GEF41   D4 0051D         CLRL    SEGMENT_POSITION[R1]
              51 00000000G  EF   D0 00524         MOVL    TEMP_INT2,R1                    ; 2352
                 00000000GEF41   D4 0052B         CLRL    SEGMENT_LENGTH[R1]
CB            50            07   F3 00532         AOBLEQ  #7,R0,82$
              50 00000000G  EF   D0 00536         MOVL    QTAB_OFFSET,R0                  ; 2356
                 FFFFFFF9GEF40   94 0053D         CLRB    BDATA-7[R0]
              21 000000DCG  EF   D1 00544         CMPL    IDATA+220,#33                   ; 2358
                            03   12 0054B         BNEQ    .+3
                         0000V   31 0054D         BRW     289$
                            5C   94 00550         CLRB    PRE_PROCESS                     ; 2360
                         0000V   31 00552         BRW     289$
00V00000000G  EF            00   E1 00555 85$:    BBC     #0,OPTIMIZING,90$               ; 2375
                  00000000  8F   DF 0055D         PUSHAL  #0                              ; 2379
                        55  8F   9F 00563         PUSHAB  #85
                  00000000  8F   DF 00566         PUSHAL  #0
                        08  8F   9F 0056C         PUSHAB  #8
                        01  8F   9F 0056F         PUSHAB  #1
   00000000G  EF            05   FB 00572         CALLS   #5,FIND_OBJECT
              00V           50   E9 00579         BLBC    R0,88$
   00000000G  EF            01   D0 0057C         MOVL    #1,INPUT_VALUE                  ; 2381
                           00V   11 00583         BRB     89$
                 00000000G  EF   D4 00585 88$:    CLRL    INPUT_VALUE                     ; 2385
                            5C   94 0058B 89$:    CLRB    PRE_PROCESS                     ; 2387
                         0000V   31 0058D 90$:    BRW     289$
                            5C   94 00590 91$:    CLRB    PRE_PROCESS                     ; 2397
                        00  8F   9F 00592         PUSHAB  #0                              ; 2398
                  00000000  8F   DF 00595         PUSHAL  #0
```

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                                 55  8F  9F 0059B        PUSHAB  #85
                           00000000  8F  DF 0059E        PUSHAL  #0
                                 08  8F  9F 005A4        PUSHAB  #8
                                 01  8F  9F 005A7        PUSHAB  #1
                 8103   CF           06  FB 005AA        CALLS   #6,ALT_SOURCE
                        56           50  90 005AF        MOVB    R0,RESULT
                                  0000V  31 005B2        BRW     289$
                          00000084G  EF  D5 005B5 92$:   TSTL    IDATA+132                              ; 2410
                                    00V  13 005BB        BEQL    94$
                       50 00000000G  EF  D0 005BD        MOVL    QTAB_OFFSET,R0
          00VFFFFFFFF5GEF40          00  E0 005C4        BBS     #0,VDATA-11[R0],95$
                        5C           01  90 005CD 94$:   MOVB    #1,PRE_PROCESS
                                    00V  11 005D0        BRB     96$
                                     5C  94 005D2 95$:   CLRB    PRE_PROCESS
          00V00000000G  EF           00  E1 005D4 96$:   BBC     #0,OPTIMIZING,101$                     ; 2416
             00000000G  EF           00  FB 005DC        CALLS   #0,POINT_AT_ANALYSIS                   ; 2420
                           00000000  8F  DF 005E3        PUSHAL  #0                                     ; 2422
                                 0D  8F  9F 005E9        PUSHAB  #13
                           00000000  8F  DF 005EC        PUSHAL  #0
                                 04  8F  9F 005F2        PUSHAB  #4
                                 01  8F  9F 005F5        PUSHAB  #1
             00000000G  EF           05  FB 005F8        CALLS   #5,FIND_OBJECT
                        00V          50  E9 005FF        BLBC    R0,99$
                       50 00000000G  EF  D0 00602        MOVL    DEF_CURRENT,R0                         ; 2424
             00000000G  EF       27  A0  D0 00609        MOVL    39(R0),OLD_COUNT
                                    00V  11 00611        BRB     100$
                          00000000G  EF  D4 00613 99$:   CLRL    OLD_COUNT                              ; 2428
             00000000G  EF           00  FB 00619 100$:  CALLS   #0,POINT_AT_DEFINITION                 ; 2430
          50 00000000G  EF           19  C5 00620        MULL3   #25,QTAB_OFFSET,R0                     ; 2432
             FFFFFEF1GEF40           01  90 00628        MOVB    #1,QTAB-271[R0]
          50 00000000G  EF           19  C5 00630        MULL3   #25,QTAB_OFFSET,R0                     ; 2433
FFFFFEF2GEF40 00000000G EF           04  28 00638        MOVC3   #4,OLD_COUNT,QTAB-270[R0]
                                    00V  11 00645        BRB     102$
          50 00000000G  EF           19  C5 00647 101$:  MULL3   #25,QTAB_OFFSET,R0                     ; 2439
                          FFFFFEF1GEF40  94 0064F        CLRB    QTAB-271[R0]
                                  0000V  31 00656 102$:  BRW     289$
                          000000C0G  EF  D5 00659 103$:  TSTL    IDATA+192                              ; 2449
                                    00V  15 0065F        BLEQ    108$
                          000000E0G  EF  D5 00661        TSTL    IDATA+224
                                    00V  13 00667        BEQL    108$
                          00000084G  EF  D5 00669        TSTL    IDATA+132
                                    00V  13 0066F        BEQL    107$
          00V0000000CG  EF           00  E0 00671        BBS     #0,VDATA+12,108$
                        5C           01  90 00679 107$:  MOVB    #1,PRE_PROCESS
                                    00V  11 0067C        BRB     109$
                                     5C  94 0067E 108$:  CLRB    PRE_PROCESS
                                  0000V  31 00680 109$:  BRW     289$
                          00000084G  EF  D5 00683 110$:  TSTL    IDATA+132                              ; 2467
                                    00V  13 00689        BEQL    112$
          00V00000017G  EF           00  E0 0068B        BBS     #0,VDATA+23,113$
                        5C           01  90 00693 112$:  MOVB    #1,PRE_PROCESS
                                  0000V  31 00696        BRW     289$
                                     5C  94 00699 113$:  CLRB    PRE_PROCESS
                                  0000V  31 0069B        BRW     289$
                          000000C0G  EF  D5 0069E 115$:  TSTL    IDATA+192                              ; 2477
                                    00V  15 006A4        BLEQ    121$
                          00000084G  EF  D5 006A6        TSTL    IDATA+132                              ; 2479
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```
                                   00V  13 006AC         BEQL    118$
                  50 00000000G     EF   D0 006AE         MOVL    QTAB_OFFSET,R0
    00VFFFFFFF5GEF40               00   E0 006B5         BBS     #0,VDATA-11[R0],119$
                  56               01   90 006BE  118$:  MOVB    #1,RESULT
                                   00V  11 006C1         BRB     122$
                                   56   94 006C3  119$:  CLRB    RESULT
                                   00V  11 006C5         BRB     122$
                  50 00000000G     EF   D0 006C7  121$:  MOVL    QTAB_OFFSET,R0                      ; 2492
       00000000GEF40               02   D0 006CE         MOVL    #2,IDATA[R0]
                                   56   94 006D6         CLRB    RESULT                              ; 2493
                 00V               56   E8 006D8  122$:  BLBS    RESULT,124$                         ; 2497
                  50 00000000G     EF   D0 006DB         MOVL    QTAB_OFFSET,R0                      ; 2499
       00000000G  EF 00000000GEF40      D0 006E2         MOVL    IDATA[R0],INPUT_VALUE
                  5C               56   90 006EE  124$:  MOVB    RESULT,PRE_PROCESS                  ; 2501
                                 0000V  31 006F1         BRW     289$
                  04 00000108G     EF   D1 006F4  125$:  CMPL    IDATA+264,#4                        ; 2509
                                   00V  12 006FB         BNEQ    127$
                  5C               01   90 006FD         MOVB    #1,PRE_PROCESS                      ; 2511
                                 0000V  31 00700         BRW     289$
                                   5C   94 00703  127$:  CLRB    PRE_PROCESS                         ; 2517
       00000000G  EF               01   D0 00705         MOVL    #1,INPUT_VALUE                      ; 2518
                                 0000V  31 0070C         BRW     289$
       00000000G  EF         7E    8F   9A 0070F  129$:  MOVZBL  #126,MAX_STRING_ANSWER_LENGTH       ; 2528
                  50 00000000G     EF   D0 00717         MOVL    QTAB_OFFSET,R0                      ; 2529
                     FFFFFFF9GEF40      94 0071E         CLRB    BDATA-7[R0]
    03 00000000G  EF               00   E0 00725         BBS     #0,OPTIMIZING,.+3                   ; 2531
                                 0000V  31 0072D         BRW     289$
                             00    8F   9F 00730         PUSHAB  #0                                  ; 2533
                       00000000    8F   DF 00733         PUSHAL  #0
                             5E    8F   9F 00739         PUSHAB  #94
                       00000000    8F   DF 0073C         PUSHAL  #0
                             08    8F   9F 00742         PUSHAB  #8
                             01    8F   9F 00745         PUSHAB  #1
            8103  CF               06   FB 00748         CALLS   #6,ALT_SOURCE
                  5C               50   90 0074D         MOVB    R0,PRE_PROCESS
                                 0000V  31 00750         BRW     289$
       00000000G  EF         7E    8F   9A 00753  132$:  MOVZBL  #126,MAX_STRING_ANSWER_LENGTH       ; 2542
                  50 00000000G     EF   D0 0075B         MOVL    QTAB_OFFSET,R0                      ; 2543
                     FFFFFFF9GEF40      94 00762         CLRB    BDATA-7[R0]
    00V00000000G  EF               00   E1 00769         BBC     #0,OPTIMIZING,134$                  ; 2545
                             00    8F   9F 00771         PUSHAB  #0                                  ; 2547
                       00000000    8F   DF 00774         PUSHAL  #0
                             00    8F   9F 0077A         PUSHAB  #0
                       00000000    8F   DF 0077D         PUSHAL  #0
                             0F    8F   9F 00783         PUSHAB  #15
                             00    8F   9F 00786         PUSHAB  #0
            8103  CF               06   FB 00789         CALLS   #6,ALT_SOURCE
                  5C               50   90 0078E         MOVB    R0,PRE_PROCESS
                                 0000V  31 00791  134$:  BRW     289$
       00000000G  EF               20   D0 00794  135$:  MOVL    #32,MAX_STRING_ANSWER_LENGTH        ; 2556
                  50 00000000G     EF   D0 0079B         MOVL    QTAB_OFFSET,R0                      ; 2557
                     FFFFFFF9GEF40      94 007A2         CLRB    BDATA-7[R0]
    03 00000000G  EF               00   E0 007A9         BBS     #0,OPTIMIZING,.+3                   ; 2559
                                 0000V  31 007B1         BRW     289$
                             00    8F   9F 007B4         PUSHAB  #0                                  ; 2561
                       00000000    8F   DF 007B7         PUSHAL  #0
                             81    8F   9F 007BD         PUSHAB  #-127
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                               00000084G  EF  9F 007C0         PUSHAB  IDATA+132
                                      0B  8F  9F 007C6         PUSHAB  #11
                                      01  8F  9F 007C9         PUSHAB  #1
                      8103 CF             06  FB 007CC         CALLS   #6,ALT_SOURCE
                           5C             50  90 007D1         MOVB    R0,PRE_PROCESS
                                       0000V  31 007D4         BRW     289$
                 00000000G EF         7E  8F  9A 007D7 138$:   MOVZBL  #126,MAX_STRING_ANSWER_LENGTH           ; 2571
                           50  00000000G  EF  D0 007DF         MOVL    QTAB_OFFSET,R0                          ; 2572
                               FFFFFFF9GEF40  94 007E6         CLRB    BDATA-7[R0]
              03 00000000G EF             00  E0 007ED         BBS     #0,OPTIMIZING,.+3                       ; 2574
                                       0000V  31 007F5         BRW     289$
                                          5C  94 007F8         CLRB    PRE_PROCESS                             ; 2576
                                       0000V  31 007FA         BRW     289$
                               00000088G  EF  D5 007FD 141$:   TSTL    IDATA+136                               ; 2586
                                         00V  15 00803         BLEQ    145$
                               00000084G  EF  D5 00805         TSTL    IDATA+132
                                         00V  13 0080B         BEQL    144$
              00V0000000BG EF             00  E0 0080D         BBS     #0,VDATA+11,145$
                           5C             01  90 00815 144$:   MOVB    #1,PRE_PROCESS
                                       0000V  31 00818         BRW     289$
                                          5C  94 0081B 145$:   CLRB    PRE_PROCESS
                                       0000V  31 0081D         BRW     289$
              50 00000000G EF             19  C5 00820 147$:   MULL3   #25,QTAB_OFFSET,R0                      ; 2598
   FFFFFEF2GEF40 00000000G EF             04  28 00828         MOVC3   #4,BUCKET_DEFAULT,QTAB-270[R0]
                                00000000  8F  DF 00835         PUSHAL  #0                                      ; 2604
                 00000000G EF             01  FB 0083B         CALLS   #1,CALC_BUC_OVERHEAD
                 00000000G EF             50  D0 00842         MOVL    R0,BUCKET_OVERHEAD
                               00000084G  EF  D5 00849         TSTL    IDATA+132                               ; 2609
                                         00V  12 0084F         BNEQ    149$
                 00000000G EF  000000E4G  EF  D0 00851         MOVL    IDATA+228,ENTRY_SIZE                    ; 2611
                                         00V  11 0085C         BRB     156$
              00V00000013G EF             00  E1 0085E 149$:   BBC     #0,BDATA+19,154$                        ; 2617
                               00000000G  EF  D4 00866         CLRL    ENTRY_SIZE                              ; 2621
                                          50  D4 0086C         CLRL    R0                                      ; 2623
                 00000000G EF             50  D0 0086E 151$:   MOVL    R0,TEMP_INT2
                           51  00000000G  EF  D0 00875         MOVL    TEMP_INT2,R1                            ; 2627
             00V00000000GEF41             00  E1 0087C         BBC     #0,SEGMENT_WANTED[R1],153$
                           51  00000000G  EF  D0 00885         MOVL    TEMP_INT2,R1                            ; 2629
                 00000000G EF  00000000GEF41  C0 0088C         ADDL2   SEGMENT_LENGTH[R1],ENTRY_SIZE
              D2           50             07  F3 00898 153$:   AOBLEQ  #7,R0,151$
                                         00V  11 0089C         BRB     156$
                 00000000G EF  000000D8G  EF  D0 0089E 154$:   MOVL    IDATA+216,ENTRY_SIZE                    ; 2638
                                00000000  8F  DF 008A9 156$:   PUSHAL  #0                                      ; 2642
                 00000000G EF             01  FB 008AF         CALLS   #1,CALC_REC_OVERHEAD
              51 00000000G EF  00000000G  EF  C1 008B6         ADDL3   BUCKET_OVERHEAD,ENTRY_SIZE,R1           ; 2644
                           51             50  C0 008C2         ADDL2   RECORD_OVERHEAD,R1
   00000000G  EF           51   00000200  8F  C7 008C5         DIVL3   #512,R1,MIN_BUCKET
              51 00000000G EF  00000000G  EF  C1 008D1         ADDL3   BUCKET_OVERHEAD,ENTRY_SIZE,R1           ; 2647
                           51             50  C0 008DD         ADDL2   RECORD_OVERHEAD,R1
51            51           00             00  7A 008E0         EMUL    #0,#0,R1,R1
51            51           51   00000200  8F  7B 008E5         EDIV    #512,R1,R1,R1
                                          51  D5 008EE         TSTL    R1
                                         00V  18 008F0         BGEQ    157$
                           51   00000200  8F  C0 008F2         ADDL2   #512,R1
                                          51  D5 008F9 157$:   TSTL    R1
                                         00V  12 008FB         BNEQ    159$
                               00000000G  EF  D5 008FD         TSTL    MIN_BUCKET
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                                           00V  12 00903          BNEQ     160$
                               00000000G    EF  D6 00905 159$:   INCL     MIN_BUCKET                          ; 2653
              51 00000000G  EF              19  C5 0090B 160$:   MULL3    #25,QTAB_OFFSET,R1                  ; 2655
   FFFFFEF6GEF41 00000000G  EF              04  28 00913          MOVC3    #4,MIN_BUCKET,QTAB-266[R1]
              50 00000000G  EF              19  C5 00920          MULL3    #25,QTAB_OFFSET,R0                  ; 2657
                            51   FFFFFEF2GEF40  9E 00928          MOVAB    QTAB-270[R0],R1
50 FFFFFEF6GEF40            20              00  EE 00930          EXTV     #0,#32,QTAB-266[R0],R0
                            50              61  D1 0093A          CMPL     (R1),R0
                                            03  19 0093D          BLSS     .+3
                                         0000V  31 0093F          BRW      289$
                            61              50  D0 00942          MOVL     R0,(R1)                             ; 2659
                                         0000V  31 00945          BRW      289$
              07            21 000000DCG    EF  CF 00948 163$:   CASEL    IDATA+220,#33,#7                    ; 2670
                                         0000V     00950          .DISPL   168$
                                         0000V     00952          .DISPL   164$
                                         0000V     00954          .DISPL   164$
                                         0000V     00956          .DISPL   165$
                                         0000V     00958          .DISPL   165$
                                         0000V     0095A          .DISPL   166$
                                         0000V     0095C          .DISPL   166$
                                         0000V     0095E          .DISPL   167$
                                           00V  11 00960          BRB      169$
                 00000000G  EF              02  D0 00962 164$:   MOVL     #2,MAX_KEY_SIZE                     ; 2676
                 00000000G  EF              02  D0 00969          MOVL     #2,MIN_KEY_SIZE                     ; 2677
                                           00V  11 00970          BRB      170$
                 00000000G  EF              04  D0 00972 165$:   MOVL     #4,MAX_KEY_SIZE                     ; 2685
                 00000000G  EF              04  D0 00979          MOVL     #4,MIN_KEY_SIZE                     ; 2686
                                           00V  11 00980          BRB      170$
                 00000000G  EF              08  D0 00982 166$:   MOVL     #8,MAX_KEY_SIZE                     ; 2694
                 00000000G  EF              08  D0 00989          MOVL     #8,MIN_KEY_SIZE                     ; 2695
                                           00V  11 00990          BRB      170$
                 00000000G  EF              10  D0 00992 167$:   MOVL     #16,MAX_KEY_SIZE                    ; 2703
                 00000000G  EF              01  D0 00999          MOVL     #1,MIN_KEY_SIZE                     ; 2704
                                           00V  11 009A0          BRB      170$
                 00000000G  EF        FF    8F  9A 009A2 168$:   MOVZBL   #255,MAX_KEY_SIZE                   ; 2712
                 00000000G  EF              01  D0 009AA          MOVL     #1,MIN_KEY_SIZE                     ; 2713
                                           00V  11 009B1          BRB      170$
                                                   009B3 169$:
                               000000E4G    EF  D5 009B3 170$:   TSTL     IDATA+228                           ; 2726
                                           00V  13 009B9          BEQL     173$
                 00000000G  EF 000000E4G    EF  D1 009BB          CMPL     IDATA+228,MAX_KEY_SIZE
                                           00V  18 009C6          BGEQ     173$
                 00000000G  EF 000000E4G    EF  D0 009C8          MOVL     IDATA+228,MAX_KEY_SIZE              ; 2732
              51 00000000G  EF              19  C5 009D3 173$:   MULL3    #25,QTAB_OFFSET,RT                  ; 2734
   FFFFFEF6GEF41 00000000G  EF              04  28 009DB          MOVC3    #4,MIN_KEY_SIZE,QTAB-266[R1]
              50 00000000G  EF              19  C5 009E8          MULL3    #25,QTAB_OFFSET,R0                  ; 2735
   FFFFFEFAGEF40 00000000G  EF              04  28 009F0          MOVC3    #4,MAX_KEY_SIZE,QTAB-262[R0]
                                      00    8F  9F 009FD          PUSHAB   #0                                  ; 2737
                               00000000G    EF  9F 00A00          PUSHAB   SEGMENT_NUMBER
                                      85    8F  9F 00A06          PUSHAB   #-123
                               00000084G    EF  9F 00A09          PUSHAB   IDATA+132
                                      0B    8F  9F 00A0F          PUSHAB   #11
                                      01    8F  9F 00A12          PUSHAB   #1
                      8103  CF              06  FB 00A15          CALLS    #6,ALT_SOURCE
                            56              50  90 00A1A          MOVB     R0,RESULT
                            5C              56  90 00A1D          MOVB     RESULT,PRE_PROCESS                  ; 2740
                                            50  94 00A20          CLRB     R0                                  ; 2742
```

```
                          51 00000000G  EF            19  C5 00A22         MULL3   #25,QTAB_OFFSET,R1
                                        52 FFFFFEF6GEF41  9E 00A2A         MOVAB   QTAB-266[R1],R2
            62 FFFFFEFAGEF41            20            00  EC 00A32         CMPV    #0,#32,QTAB-262[R1],(R2)
                                                     00V  13 00A3C         BEQL    175$
                                                      50  96 00A3E         INCB    R0
                                        56            50  8A 00A40 175$:   BICB2   R0,RESULT
                                        00V           56  E9 00A43         BLBC    RESULT,177$
                                                      5C  94 00A46         CLRB    PRE_PROCESS                        ; 2750
                             00000000G  EF            62  D0 00A48         MOVL    (R2),INPUT_VALUE                   ; 2751
                                        52 00000000G  EF  D0 00A4F         MOVL    QTAB_OFFSET,R2                     ; 2752
                             00000000GEF42 00000000G  EF  D0 00A56         MOVL    INPUT_VALUE,IDATA[R2]
                                        52 00000000G  EF  D0 00A62         MOVL    SEGMENT_NUMBER,R2                  ; 2753
                             00000000GEF42 00000000G  EF  D0 00A69         MOVL    INPUT_VALUE,SEGMENT_LENGTH[R2]
                                                   0000V  31 00A75 177$:   BRW     289$
                                           00000084G  EF  D5 00A78 178$:   TSTL    IDATA+132                          ; 2763
                                                     00V  13 00A7E         BEQL    180$
                          00V00000033G  EF            00  E0 00A80         BBS     #0,VDATA+51,181$
                                                  00  8F  9F 00A88 180$:   PUSHAB  #0                                 ; 2769
                                            00000000  8F  DF 00A8B         PUSHAL  #0
                                                  84  8F  9F 00A91         PUSHAB  #-124
                                           00000084G  EF  9F 00A94         PUSHAB  IDATA+132
                                                  0B  8F  9F 00A9A         PUSHAB  #11
                                                  01  8F  9F 00A9D         PUSHAB  #1
                                 8103   CF            06  FB 00AA0         CALLS   #6,ALT_SOURCE
                                        5C            50  90 00AA5         MOVB    R0,PRE_PROCESS
                                                   0000V  31 00AA8         BRW     289$
                                                      5C  94 00AAB 181$:   CLRB    PRE_PROCESS                        ; 2774
                                                   0000V  31 00AAD         BRW     289$
                                                  01  8F  9F 00AB0 183$:   PUSHAB  #1                                 ; 2785
                             00000000G  EF            01  FB 00AB3         CALLS   #1,SCAN_DEFINITION
                          50 00000000G  EF            19  C5 00ABA         MULL3   #25,QTAB_OFFSET,R0                 ; 2787
               FFFFFEF6GEF40 00000000G  EF            04  28 00AC2         MOVC3   #4,LOW_KEY,QTAB-266[R0]
                          50 00000000G  EF            19  C5 00ACF         MULL3   #25,QTAB_OFFSET,R0                 ; 2788
               FFFFFEFAGEF40 00000000G  EF            04  28 00AD7         MOVC3   #4,HIGH_KEY,QTAB-262[R0]
                          50 00000000G  EF            19  C5 00AE4         MULL3   #25,QTAB_OFFSET,R0                 ; 2790
                                        52 FFFFFEF6GEF40  9E 00AEC         MOVAB   QTAB-266[R0],R2
            62 FFFFFEFAGEF40            20            00  EC 00AF4         CMPV    #0,#32,QTAB-262[R0],(R2)
                                                      03  13 00AFE         BEQL    .+3
                                                   0000V  31 00B00         BRW     289$
                                                      5C  94 00B03         CLRB    PRE_PROCESS                        ; 2796
                             00000000G  EF            62  D0 00B05         MOVL    (R2),INPUT_VALUE                   ; 2797
                                                   0000V  31 00B0C         BRW     289$
                                           00000084G  EF  D5 00B0F 186$:   TSTL    IDATA+132                          ; 2811
                                                     00V  13 00B15         BEQL    188$
                          00V0000001CG  EF            00  E0 00B17         BBS     #0,VDATA+28,189$
                                                  00  8F  9F 00B1F 188$:   PUSHAB  #0                                 ; 2817
                                            00000000  8F  DF 00B22         PUSHAL  #0
                                                  89  8F  9F 00B28         PUSHAB  #-119
                                            00000000  8F  DF 00B2B         PUSHAL  #0
                                                  0C  8F  9F 00B31         PUSHAB  #12
                                                  01  8F  9F 00B34         PUSHAB  #1
                                 8103   CF            06  FB 00B37         CALLS   #6,ALT_SOURCE
                                        5C            50  90 00B3C         MOVB    R0,PRE_PROCESS
                                                   0000V  31 00B3F         BRW     289$
                                                      5C  94 00B42 189$:   CLRB    PRE_PROCESS                        ; 2822
                                                   0000V  31 00B44         BRW     289$
                             00000100   8F 000000E8G  EF  D1 00B47 191$:   CMPL    IDATA+232,#256                     ; 2833
```

```
                                         00V  18 00B52        BGEQ    193$
              00000000G  EF 000000E8G     EF  D0 00B54        MOVL    IDATA+232,CUR_MAX_FIXED                 ; 2835
                                         00V  11 00B5F        BRB     194$
              00000000G  EF        FF     8F  9A 00B61 193$:  MOVZBL  #255,CUR_MAX_FIXED                      ; 2839
           50 00000000G  EF               19  C5 00B69 194$:  MULL3   #25,QTAB_OFFSET,R0                      ; 2841
FFFFFEFAGEF40 00000000G  EF               04  28 00B71        MOVC3   #4,CUR_MAX_FIXED,QTAB-262[R0]
                                00        8F  9F 00B7E        PUSHAB  #0                                      ; 2843
                          00000000        8F  DF 00B81        PUSHAL  #0
                                8A        8F  9F 00B87        PUSHAB  #-118
                          00000000        8F  DF 00B8A        PUSHAL  #0
                                0C        8F  9F 00B90        PUSHAB  #12
                                01        8F  9F 00B93        PUSHAB  #1
                   8103  CF               06  FB 00B96        CALLS   #6,ALT_SOURCE
                         5C               50  90 00B9B        MOVB    R0,PRE_PROCESS
                                       0000V  31 00B9E        BRW     289$
                                00        8F  9F 00BA1 195$:  PUSHAB  #0                                      ; 2851
                          00000007        8F  DF 00BA4        PUSHAL  #7
                                87        8F  9F 00BAA        PUSHAB  #-121
                          00000084G       EF  9F 00BAD        PUSHAB  IDATA+132
                                0B        8F  9F 00BB3        PUSHAB  #11
                                01        8F  9F 00BB6        PUSHAB  #1
                   8103  CF               06  FB 00BB9        CALLS   #6,ALT_SOURCE
                         5C               50  90 00BBE        MOVB    R0,PRE_PROCESS
                                       0000V  31 00BC1        BRW     289$
                          000000C0G       EF  D5 00BC4 196$:  TSTL    IDATA+192                               ; 2863
                                         00V  15 00BCA        BLEQ    198$
                                00        8F  9F 00BCC        PUSHAB  #0                                      ; 2867
                          00000000        8F  DF 00BCF        PUSHAL  #0
                                79        8F  9F 00BD5        PUSHAB  #121
                          00000084G       EF  9F 00BD8        PUSHAB  IDATA+132
                                0B        8F  9F 00BDE        PUSHAB  #11
                                01        8F  9F 00BE1        PUSHAB  #1
                   8103  CF               06  FB 00BE4        CALLS   #6,ALT_SOURCE
                         5C               50  90 00BE9        MOVB    R0,PRE_PROCESS
                                       0000V  31 00BEC        BRW     289$
              000000ACG  EF        64     8F  9A 00BEF 198$:  MOVZBL  #100,IDATA+172                          ; 2877
              00000000G  EF        64     8F  9A 00BF7        MOVZBL  #100,IDATA                              ; 2878
                                          5C  94 00BFF        CLRB    PRE_PROCESS                             ; 2879
                                       0000V  31 00C01        BRW     289$
              000000E8G  EF 00000000G     EF  D1 00C04 200$:  CMPL    CUR_MAX_REC,IDATA+232                   ; 2894
                                         00V  18 00C0F        BGEQ    202$
              00000000G  EF 00000000G     EF  D0 00C11        MOVL    CUR_MAX_REC,LOWMAX                      ; 2896
                                         00V  11 00C1C        BRB     203$
              00000000G  EF 000000E8G     EF  D0 00C1E 202$:  MOVL    IDATA+232,LOWMAX                        ; 2900
           50 00000000G  EF               19  C5 00C29 203$:  MULL3   #25,QTAB_OFFSET,R0                      ; 2902
FFFFFEF6GEF40 00000000G  EF               04  28 00C31        MOVC3   #4,LOWMAX,QTAB-266[R0]
           50 00000000G  EF               19  C5 00C3E        MULL3   #25,QTAB_OFFSET,R0                      ; 2903
FFFFFEFAGEF40 00000000G  EF               04  28 00C46        MOVC3   #4,CUR_MAX_REC,QTAB-262[R0]
                                00        8F  9F 00C53        PUSHAB  #0                                      ; 2905
                          00000000        8F  DF 00C56        PUSHAL  #0
                                8C        8F  9F 00C5C        PUSHAB  #-116
                          00000000        8F  DF 00C5F        PUSHAL  #0
                                0C        8F  9F 00C65        PUSHAB  #12
                                01        8F  9F 00C68        PUSHAB  #1
                   8103  CF               06  FB 00C6B        CALLS   #6,ALT_SOURCE
                         5C               50  90 00C70        MOVB    R0,PRE_PROCESS
                                       0000V  31 00C73        BRW     289$
```

```
                                          00000000    8F  DF 00C76 204$:   PUSHAL   #0                                         ; 2911
                            00000000G EF              01  FB 00C7C         CALLS    #1,CALC_BUC_OVERHEAD
                                      52              50  D0 00C83         MOVL     R0,R2
                                          00000000    8F  DF 00C86         PUSHAL   #0
                            00000000G EF              01  FB 00C8C         CALLS    #1,CALC_REC_OVERHEAD
                                      50            6042  9E 00C93         MOVAB    (R0)[R2],R0
              00000000G  EF 00007E00  8F              50  C3 00C97         SUBL3    R0,#32256,CUR_MAX_REC
                                                   0000V  31 00CA3         BRW      289$
                         06           00 00000108G  EF    CF 00CA6 205$:   CASEL    IDATA+264,#0,#6                            ; 2921
                                                   0000V     00CAE         .DISPL   206$
                                                   0000V     00CB0         .DISPL   206$
                                                   0000V     00CB2         .DISPL   206$
                                                   0000V     00CB4         .DISPL   208$
                                                   0000V     00CB6         .DISPL   207$
                                                   0000V     00CB8         .DISPL   206$
                                                   0000V     00CBA         .DISPL   206$
                                                     00V  11 00CBC         BRB      212$
                                          00000000    8F  DF 00CBE 206$:   PUSHAL   #0                                         ; 2928
                            00000000G EF              01  FB 00CC4         CALLS    #1,CALC_BUC_OVERHEAD
                                      52              50  D0 00CCB         MOVL     R0,R2
                                          00000000    8F  DF 00CCE         PUSHAL   #0
                            00000000G EF              01  FB 00CD4         CALLS    #1,CALC_REC_OVERHEAD
                                      50            6042  9E 00CDB         MOVAB    (R0)[R2],R0
              00000000G  EF 00007E00  8F              50  C3 00CDF         SUBL3    R0,#32256,CUR_MAX_REC
                                                     00V  11 00CEB         BRB      213$
                            00000000G EF      7FFF    8F  3C 00CED 207$:   MOVZWL   #32767,CUR_MAX_REC                         ; 2930
                                                     00V  11 00CF6         BRB      213$
                         00V00000000G EF              00  E1 00CF8 208$:   BBC      #0,VARIABLE_RECORDS,210$                   ; 2931
                            00000000G EF      3FFD    8F  3C 00D00         MOVZWL   #16381,CUR_MAX_REC                         ; 2933
                                                     00V  11 00D09         BRB      211$
                            00000000G EF      3FFF    8F  3C 00D0B 210$:   MOVZWL   #16383,CUR_MAX_REC                         ; 2937
                                                     00V  11 00D14 211$:   BRB      213$
                                                             00D16 212$:
                                      04 00000108G  EF    D1 00D16 213$:   CMPL     IDATA+264,#4                               ; 2945
                                                     00V  12 00D1D         BNEQ     219$
                         00V00000011G EF              00  E0 00D1F         BBS      #0,BDATA+17,219$
                         00V00000000G EF              00  E1 00D27         BBC      #0,VARIABLE_RECORDS,217$                   ; 2951
                            00000000G EF      01FE    8F  3C 00D2F         MOVZWL   #510,CUR_MAX_REC                           ; 2953
                                                     00V  11 00D38         BRB      218$
                            00000000G EF      0200    8F  3C 00D3A 217$:   MOVZWL   #512,CUR_MAX_REC                           ; 2957
                                                             00D43 218$:
                         50 00000000G EF              19  C5 00D43 219$:   MULL3    #25,QTAB_OFFSET,R0                         ; 2959
              FFFFFEFAGEF40 00000000G EF              04  28 00D4B         MOVC3    #4,CUR_MAX_REC,QTAB-262[R0]
                         00V00000000G EF              00  E1 00D58         BBC      #0,VARIABLE_RECORDS,221$                   ; 2961
                                                01    8F  9F 00D60         PUSHAB   #1                                         ; 2963
                                          00000000    8F  DF 00D63         PUSHAL   #0
                                                16    8F  9F 00D69         PUSHAB   #22
                                          00000000    8F  DF 00D6C         PUSHAL   #0
                                                04    8F  9F 00D72         PUSHAB   #4
                                                01    8F  9F 00D75         PUSHAB   #1
                                B103  CF              06  FB 00D78         CALLS    #6,ALT_SOURCE
                                      5C              50  90 00D7D         MOVB     R0,PRE_PROCESS
                                                     00V  11 00D80         BRB      222$
                                                00    8F  9F 00D82 221$:   PUSHAB   #0                                         ; 2968
                                          00000000    8F  DF 00D85         PUSHAL   #0
                                                8C    8F  9F 00D8B         PUSHAB   #-116
                                          00000000    8F  DF 00D8E         PUSHAL   #0
```

```
                           0C    8F  9F 00D94         PUSHAB  #12
                           01    8F  9F 00D97         PUSHAB  #1
          8103  CF               06  FB 00D9A         CALLS   #6,ALT_SOURCE
                5C               50  90 00D9F         MOVB    R0,PRE_PROCESS
                              0000V  31 00DA2 222$:   BRW     289$
  00V00000000G  EF               00  E1 00DA5 223$:   BBC     #0,ISAM_ORG,226$              ; 2980
                    00000084G    EF  D5 00DAD         TSTL    IDATA+132
                                00V  13 00DB3         BEQL    226$
  00V00000035G  EF               00  E0 00DB5         BBS     #0,VDATA+53,227$
                           00    8F  9F 00DBD 226$:   PUSHAB  #0                            ; 2988
                     00000000    8F  DF 00DC0         PUSHAL  #0
                           8B    8F  9F 00DC6         PUSHAB  #-117
                     00000000    8F  DF 00DC9         PUSHAL  #0
                           0C    8F  9F 00DCF         PUSHAB  #12
                           01    8F  9F 00DD2         PUSHAB  #1
          8103  CF               06  FB 00DD5         CALLS   #6,ALT_SOURCE
                5C               50  90 00DDA         MOVB    R0,PRE_PROCESS
                              0000V  31 00DDD         BRW     289$
                                 5C  94 00DE0 227$:   CLRB    PRE_PROCESS                   ; 2992
                              0000V  31 00DE2         BRW     289$
  03 00000000G  EF               00  E1 00DE5 229$:   BBC     #0,AUTO_TUNE,.+3              ; 3000
                              0000V  31 00DED         BRW     287$
                     00000001    8F  DF 00DF0         PUSHAL  #1                            ; 3007
     00000000G  EF               01  FB 00DF6         CALLS   #1,CLEAR
  00V00000000G  EF               00  E1 00DFD         BBC     #0,REGIS,234$                 ; 3012
                     FFFF9821    EF  9F 00E05         PUSHAB  C.ALZ                         ; 3016
                                 04  DD 00E0B         PUSHL   #4
                    00000000G    EF  9F 00E0D         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E13         CALLS   #3,PAS$WRITE_STRING
                05  00000118G    EF  D1 00E1A         CMPL    IDATA+280,#5                  ; 3018
                                00V  13 00E21         BEQL    233$
                     FFFF9807    EF  9F 00E23         PUSHAB  C.AMA                         ; 3020
                     00000046    8F  DD 00E29         PUSHL   #70
                    00000000G    EF  9F 00E2F         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E35         CALLS   #3,PAS$WRITE_STRING
                     FFFF9836    EF  9F 00E3C 233$:   PUSHAB  C.AMB                         ; 3023
                                 13  DD 00E42         PUSHL   #19
                    00000000G    EF  9F 00E44         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E4A         CALLS   #3,PAS$WRITE_STRING
                    00000000G    EF  9F 00E51         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               01  FB 00E57         CALLS   #1,PAS$WRITELN2
                    00000000G    EF  9F 00E5E 234$:   PUSHAB  LOW_SHIFT                     ; 3027
                                 03  DD 00E64         PUSHL   #3
                    00000000G    EF  9F 00E66         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E6C         CALLS   #3,PAS$WRITE_STRING
                                 01  DD 00E73         PUSHL   #1
                                 20  DD 00E75         PUSHL   #32
                    00000000G    EF  9F 00E77         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E7D         CALLS   #3,PAS$WRITE_CHAR
                     FFFF9802    EF  9F 00E84         PUSHAB  C.AMC                         ; 3029
                                 18  DD 00E8A         PUSHL   #24
                    00000000G    EF  9F 00E8C         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00E92         CALLS   #3,PAS$WRITE_STRING
                                 01  DD 00E99         PUSHL   #1
                    000000F8G    EF  DD 00E9B         PUSHL   IDATA+248
                    00000000G    EF  9F 00EA1         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03  FB 00EA7         CALLS   #3,PAS$WRITE_INTEGER
```

```
                                01  DD 00EAE          PUSHL   #1
                                20  DD 00EB0          PUSHL   #32
                    00000000G   EF  9F 00EB2          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00EB8          CALLS   #3,PAS$WRITE_CHAR
                    FFFF97DF    EF  9F 00EBF          PUSHAB  C.AMD                              ; 3030
                                06  DD 00EC5          PUSHL   #6
                    00000000G   EF  9F 00EC7          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00ECD          CALLS   #3,PAS$WRITE_STRING
                                03  DD 00ED4          PUSHL   #3
                    00000084G   EF  DD 00ED6          PUSHL   IDATA+132
                    00000000G   EF  9F 00EDC          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00EE2          CALLS   #3,PAS$WRITE_INTEGER
                    FFFF97BD    EF  9F 00EE9          PUSHAB  C.AME
                                09  DD 00EEF          PUSHL   #9
                    00000000G   EF  9F 00EF1          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00EF7          CALLS   #3,PAS$WRITE_STRING
   07               21 000000DCG EF  CF 00EFE          CASEL   IDATA+220,#33,#7                   ; 3034
                             0000V     00F06          .DISPL  242$
                             0000V     00F08          .DISPL  239$
                             0000V     00F0A          .DISPL  235$
                             0000V     00F0C          .DISPL  240$
                             0000V     00F0E          .DISPL  236$
                             0000V     00F10          .DISPL  241$
                             0000V     00F12          .DISPL  237$
                             0000V     00F14          .DISPL  238$
                             0000V  31 00F16          BRW     243$
                    FFFF9799    EF  9F 00F19 235$:    PUSHAB  C.AMF                              ; 3036
                                08  DD 00F1F          PUSHL   #8
                    00000000G   EF  9F 00F21          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F27          CALLS   #3,PAS$WRITE_STRING
                             0000V  31 00F2E          BRW     244$
                    FFFF9789    EF  9F 00F31 236$:    PUSHAB  C.AMG                              ; 3037
                                08  DD 00F37          PUSHL   #8
                    00000000G   EF  9F 00F39          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F3F          CALLS   #3,PAS$WRITE_STRING
                             0000V  31 00F46          BRW     244$
                    FFFF9779    EF  9F 00F49 237$:    PUSHAB  C.AMH                              ; 3038
                                08  DD 00F4F          PUSHL   #8
                    00000000G   EF  9F 00F51          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F57          CALLS   #3,PAS$WRITE_STRING
                               00V  11 00F5E          BRB     244$
                    FFFF976A    EF  9F 00F60 238$:    PUSHAB  C.AMI                              ; 3039
                                08  DD 00F66          PUSHL   #8
                    00000000G   EF  9F 00F68          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F6E          CALLS   #3,PAS$WRITE_STRING
                               00V  11 00F75          BRB     244$
                    FFFF975B    EF  9F 00F77 239$:    PUSHAB  C.AMJ                              ; 3040
                                08  DD 00F7D          PUSHL   #8
                    00000000G   EF  9F 00F7F          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F85          CALLS   #3,PAS$WRITE_STRING
                               00V  11 00F8C          BRB     244$
                    FFFF974C    EF  9F 00F8E 240$:    PUSHAB  C.AMK                              ; 3041
                                08  DD 00F94          PUSHL   #8
                    00000000G   EF  9F 00F96          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03  FB 00F9C          CALLS   #3,PAS$WRITE_STRING
                               00V  11 00FA3          BRB     244$
                    FFFF973D    EF  9F 00FA5 241$:    PUSHAB  C.AML                              ; 3042
```

```
                                 08  DD 00FAB           PUSHL   #8
                     00000000G   EF  9F 00FAD           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FB3           CALLS   #3,PAS$WRITE_STRING
                                 00V 11 00FBA           BRB     244$
                     FFFF972E    EF  9F 00FBC  242$:    PUSHAB  C.AMM                                    ; 3043
                                 08  DD 00FC2           PUSHL   #8
                     00000000G   EF  9F 00FC4           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FCA           CALLS   #3,PAS$WRITE_STRING
                                 00V 11 00FD1           BRB     244$
                                        00FD3  243$:
                     FFFF971F    EF  9F 00FD3  244$:    PUSHAB  C.AMN                                    ; 3051
                                 0D  DD 00FD9           PUSHL   #13
                     00000000G   EF  9F 00FDB           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FE1           CALLS   #3,PAS$WRITE_STRING
                   05 00000118G  EF  D1 00FE8           CMPL    IDATA+280,#5                             ; 3053
                                 00V 13 00FEF           BEQL    246$
                     FFFF9711    EF  9F 00FF1           PUSHAB  C.AMO                                    ; 3055
                                 05  DD 00FF7           PUSHL   #5
                     00000000G   EF  9F 00FF9           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FFF           CALLS   #3,PAS$WRITE_STRING
                     00000098G   EF  D5 01006  246$:    TSTL    IDATA+152                                ; 3057
                                 00V 12 0100C           BNEQ    248$
                     FFFF96FC    EF  9F 0100E           PUSHAB  C.AMP                                    ; 3059
                                 07  DD 01014           PUSHL   #7
                     00000000G   EF  9F 01016           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 0101C           CALLS   #3,PAS$WRITE_STRING
                                 00V 11 01023           BRB     249$
                     FFFF96ED    EF  9F 01025  248$:    PUSHAB  C.AMQ                                    ; 3063
                                 07  DD 0102B           PUSHL   #7
                     00000000G   EF  9F 0102D           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 01033           CALLS   #3,PAS$WRITE_STRING
                   05 00000118G  EF  D1 0103A  249$:    CMPL    IDATA+280,#5                             ; 3065
                                 00V 12 01041           BNEQ    251$
        00000000G  EF            00  FB 01043           CALLS   #0,NATURAL_DEPTH                         ; 3069
        00000000G  EF            50  D0 0104A           MOVL    R0,BUCKET_DEFAULT
                     FFFF96C9    EF  9F 01051           PUSHAB  C.AMR                                    ; 3070
                                 02  DD 01057           PUSHL   #2
                     00000000G   EF  9F 01059           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 0105F           CALLS   #3,PAS$WRITE_STRING
                                 02  DD 01066           PUSHL   #2
                     00000000G   EF  DD 01068           PUSHL   BUCKET_DEFAULT
                     00000000G   EF  9F 0106E           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 01074           CALLS   #3,PAS$WRITE_INTEGER
                                 01  DD 0107B           PUSHL   #1
                                 29  DD 0107D           PUSHL   #41
                     00000000G   EF  9F 0107F           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 01085           CALLS   #3,PAS$WRITE_CHAR
                     00000000G   EF  9F 0108C  251$:    PUSHAB  PAS$FV_OUTPUT                            ; 3074
        00000000G  EF            01  FB 01092           CALLS   #1,PAS$WRITELN2
                     00000000G   EF  9F 01099           PUSHAB  LOW_SHIFT                                ; 3075
                                 03  DD 0109F           PUSHL   #3
                     00000000G   EF  9F 010A1           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 010A7           CALLS   #3,PAS$WRITE_STRING
                                 01  DD 010AE           PUSHL   #1
                                 20  DD 010B0           PUSHL   #32
                     00000000G   EF  9F 010B2           PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 010B8           CALLS   #3,PAS$WRITE_CHAR
```

```
                          FFFF965F   EF   9F 010BF          PUSHAB  C.AMS                              ; 3077
                                     0A   DD 010C5          PUSHL   #10
                          00000000G  EF   9F 010C7          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 010CD          CALLS   #3,PAS$WRITE_STRING
                                     03   DD 010D4          PUSHL   #3
                          00000084G  EF   DD 010D6          PUSHL   IDATA+132
                          00000000G  EF   9F 010DC          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 010E2          CALLS   #3,PAS$WRITE_INTEGER
                          FFFF9641   EF   9F 010E9          PUSHAB  C.AMT
                                     09   DD 010EF          PUSHL   #9
                          00000000G  EF   9F 010F1          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 010F7          CALLS   #3,PAS$WRITE_STRING
          00v00000017G  EF           00   E1 010FE          BBC     #0,BDATA+23,253$                   ; 3081
                          FFFF9630   EF   9F 01106          PUSHAB  C.AMU                              ; 3083
                                     04   DD 0110C          PUSHL   #4
                          00000000G  EF   9F 0110E          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 01114          CALLS   #3,PAS$WRITE_STRING
                                     00V  11 0111B          BRB     254$
                          FFFF961D   EF   9F 0111D  253$:   PUSHAB  C.AMV                              ; 3087
                                     04   DD 01123          PUSHL   #4
                          00000000G  EF   9F 01125          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 0112B          CALLS   #3,PAS$WRITE_STRING
                       05 00000118G  EF   D1 01132  254$:   CMPL    IDATA+280,#5                       ; 3089
                                     00V  13 01139          BEQL    256$
                       04 00000118G  EF   D1 0113B          CMPL    IDATA+280,#4
                                     00V  13 01142          BEQL    257$
                          FFFF95FA   EF   9F 01144  256$:   PUSHAB  C.AMW                              ; 3092
                                     06   DD 0114A          PUSHL   #6
                          00000000G  EF   9F 0114C          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 01152          CALLS   #3,PAS$WRITE_STRING
                                     03   DD 01159          PUSHL   #3
                          00000084G  EF   DD 0115B          PUSHL   IDATA+132
                          00000000G  EF   9F 01161          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 01167          CALLS   #3,PAS$WRITE_INTEGER
                          FFFF95D8   EF   9F 0116E          PUSHAB  C.AMX
                                     0D   DD 01174          PUSHL   #13
                          00000000G  EF   9F 01176          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 0117C          CALLS   #3,PAS$WRITE_STRING
                                     03   DD 01183          PUSHL   #3
                          000000D8G  EF   DD 01185          PUSHL   IDATA+216
                          00000000G  EF   9F 0118B          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 01191          CALLS   #3,PAS$WRITE_INTEGER
                                     01   DD 01198          PUSHL   #1
                                     20   DD 0119A          PUSHL   #32
                          00000000G  EF   9F 0119C          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 011A2          CALLS   #3,PAS$WRITE_CHAR
                          FFFF95AD   EF   9F 011A9  257$:   PUSHAB  C.AMY                              ; 3095
                                     06   DD 011AF          PUSHL   #6
                          00000000G  EF   9F 011B1          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 011B7          CALLS   #3,PAS$WRITE_STRING
                                     03   DD 011BE          PUSHL   #3
                          00000084G  EF   DD 011C0          PUSHL   IDATA+132
                          00000000G  EF   9F 011C6          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF           03   FB 011CC          CALLS   #3,PAS$WRITE_INTEGER
                          FFFF958B   EF   9F 011D3          PUSHAB  C.AMZ
                                     0B   DD 011D9          PUSHL   #11
                          00000000G  EF   9F 011DB          PUSHAB  PAS$FV_OUTPUT
```

```
   00000000G  EF              03    FB 011E1        CALLS   #3,PAS$WRITE_STRING
                              05    DD 011E8        PUSHL   #5
                 000000CCG    EF    DD 011EA        PUSHL   IDATA+204
                 00000000G    EF    9F 011F0        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 011F6        CALLS   #3,PAS$WRITE_INTEGER
                              01    DD 011FD        PUSHL   #1
                              20    DD 011FF        PUSHL   #32
                 00000000G    EF    9F 01201        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 01207        CALLS   #3,PAS$WRITE_CHAR
                 00000000G    EF    9F 0120E        PUSHAB  PAS$FV_OUTPUT                   ; 3098
   00000000G  EF              01    FB 01214        CALLS   #1,PAS$WRITELN2
                 00000000G    EF    9F 0121B        PUSHAB  LOW_SHIFT                       ; 3099
                              03    DD 01221        PUSHL   #3
                 00000000G    EF    9F 01223        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 01229        CALLS   #3,PAS$WRITE_STRING
                              01    DD 01230        PUSHL   #1
                              20    DD 01232        PUSHL   #32
                 00000000G    EF    9F 01234        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 0123A        CALLS   #3,PAS$WRITE_CHAR
              02 000000F8G    EF    D1 01241        CMPL    IDATA+248,#2                    ; 3101
                              03    14 01248        BGTR    .+3
                           0000V    31 0124A        BRW     259$
                 FFFF951D     EF    9F 0124D        PUSHAB  C.ANA                           ; 3105
                              15    DD 01253        PUSHL   #21
                 00000000G    EF    9F 01255        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 0125B        CALLS   #3,PAS$WRITE_STRING
                              03    DD 01262        PUSHL   #3
50 00000024G  EF 000043C8     8F    45 01264        MULF3   #^F100.0,RDATA+36,R0
              7E              50    4A 01270        CVTFL   R0,-(SP)
                 00000000G    EF    9F 01273        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 01279        CALLS   #3,PAS$WRITE_INTEGER
                 FFFF9500     EF    9F 01280        PUSHAB  C.ANB
                              02    DD 01286        PUSHL   #2
                 00000000G    EF    9F 01288        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 0128E        CALLS   #3,PAS$WRITE_STRING
                 FFFF94ED     EF    9F 01295        PUSHAB  C.ANC                           ; 3107
                              15    DD 0129B        PUSHL   #21
                 00000000G    EF    9F 0129D        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 012A3        CALLS   #3,PAS$WRITE_STRING
                              03    DD 012AA        PUSHL   #3
50 00000020G  EF 000043C8     8F    45 012AC        MULF3   #^F100.0,RDATA+32,R0
              7E              50    4A 012B8        CVTFL   R0,-(SP)
                 00000000G    EF    9F 012BB        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 012C1        CALLS   #3,PAS$WRITE_INTEGER
                 FFFF94D0     EF    9F 012C8        PUSHAB  C.AND
                              02    DD 012CE        PUSHL   #2
                 00000000G    EF    9F 012D0        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 012D6        CALLS   #3,PAS$WRITE_STRING
                 FFFF94BD     EF    9F 012DD        PUSHAB  C.ANE                           ; 3109
                              15    DD 012E3        PUSHL   #21
                 00000000G    EF    9F 012E5        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 012EB        CALLS   #3,PAS$WRITE_STRING
                              03    DD 012F2        PUSHL   #3
50 00000028G  EF 000043C8     8F    45 012F4        MULF3   #^F100.0,RDATA+40,R0
              7E              50    4A 01300        CVTFL   R0,-(SP)
                 00000000G    EF    9F 01303        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03    FB 01309        CALLS   #3,PAS$WRITE_INTEGER
```

```
                            FFFF94A0   EF    9F 01310          PUSHAB  C.ANF
                                       02    DD 01316          PUSHL   #2
                            00000000G  EF    9F 01318          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 0131E          CALLS   #3,PAS$WRITE_STRING
                            00000000G  EF    9F 01325          PUSHAB  PAS$FV_OUTPUT                                  ; 3112
              00000000G  EF            01    FB 0132B          CALLS   #1,PAS$WRITELN2
                            00000000G  EF    9F 01332          PUSHAB  LOW_SHIFT                                      ; 3113
                                       03    DD 01338          PUSHL   #3
                            00000000G  EF    9F 0133A          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 01340          CALLS   #3,PAS$WRITE_STRING
                                       01    DD 01347          PUSHL   #1
                                       20    DD 01349          PUSHL   #32
                            00000000G  EF    9F 0134B          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 01351          CALLS   #3,PAS$WRITE_CHAR
                         05 00000118G  EF    D1 01358 259$:    CMPL    IDATA+280,#5                                   ; 3117
                                       00V   13 0135F          BEQL    261$
                            00000118G  EF    D5 01361          TSTL    IDATA+280
                                       00V   13 01367          BEQL    262$
                            FFFF9449   EF    9F 01369 261$:    PUSHAB  C.ANG                                          ; 3120
                                       15    DD 0136F          PUSHL   #21
                            00000000G  EF    9F 01371          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 01377          CALLS   #3,PAS$WRITE_STRING
                                       03    DD 0137E          PUSHL   #3
                            000000ACG  EF    DD 01380          PUSHL   IDATA+172
                            00000000G  EF    9F 01386          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 0138C          CALLS   #3,PAS$WRITE_INTEGER
                            FFFF9435   EF    9F 01393          PUSHAB  C.ANH
                                       02    DD 01399          PUSHL   #2
                            00000000G  EF    9F 0139B          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 013A1          CALLS   #3,PAS$WRITE_STRING
                            FFFF9422   EF    9F 013A8 262$:    PUSHAB  C.ANI                                          ; 3122
                                       11    DD 013AE          PUSHL   #17
                            00000000G  EF    9F 013B0          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 013B6          CALLS   #3,PAS$WRITE_STRING
           00V00000000G  EF            00    E1 013BD          BBC     #0,VARIABLE_RECORDS,264$                       ; 3124
                            FFFF9419   EF    9F 013C5          PUSHAB  C.ANJ                                          ; 3126
                                       09    DD 013CB          PUSHL   #9
                            00000000G  EF    9F 013CD          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 013D3          CALLS   #3,PAS$WRITE_STRING
                                       00V   11 013DA          BRB     265$
                            FFFF940E   EF    9F 013DC 264$:    PUSHAB  C.ANK                                          ; 3130
                                       09    DD 013E2          PUSHL   #9
                            00000000G  EF    9F 013E4          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 013EA          CALLS   #3,PAS$WRITE_STRING
                         05 00000118G  EF    D1 013F1 265$:    CMPL    IDATA+280,#5                                   ; 3132
                                       00V   13 013F3          BEQL    267$
                         01 00000118G  EF    D1 013FA          CMPL    IDATA+280,#1
                                       00V   13 01401          BEQL    271$
                            FFFF93F3   EF    9F 01403 267$:    PUSHAB  C.ANL                                          ; 3137
                                       03    DD 01409          PUSHL   #3
                            00000000G  EF    9F 0140B          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 01411          CALLS   #3,PAS$WRITE_STRING
           00V00000000G  EF            00    E1 01418          BBC     #0,VARIABLE_RECORDS,269$                       ; 3139
                            FFFF93DA   EF    9F 01420          PUSHAB  C.ANM                                          ; 3141
                                       11    DD 01426          PUSHL   #17
                            00000000G  EF    9F 01428          PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03    FB 0142E          CALLS   #3,PAS$WRITE_STRING
```

```
                               00V  11 01435         BRB     270$
                  FFFF93D7     EF   9F 01437 269$:   PUSHAB  C.ANN                         ; 3145
                               11   DD 0143D         PUSHL   #17
                  00000000G    EF   9F 0143F         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 01445         CALLS   #3,PAS$WRITE_STRING
                               05   DD 0144C 270$:   PUSHL   #5                            ; 3147
                  000000E8G    EF   DD 0144E         PUSHL   IDATA+232
                  00000000G    EF   9F 01454         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 0145A         CALLS   #3,PAS$WRITE_INTEGER
                               01   DD 01461         PUSHL   #1
                               20   DD 01463         PUSHL   #32
                  00000000G    EF   9F 01465         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 0146B         CALLS   #3,PAS$WRITE_CHAR
                  00000000G    EF   9F 01472 271$:   PUSHAB  PAS$FV_OUTPUT                 ; 3152
    00000000G  EF              01   FB 01478         CALLS   #1,PAS$WRITELN2
                  00000000G    EF   9F 0147F         PUSHAB  LOW_SHIFT                     ; 3153
                               03   DD 01485         PUSHL   #3
                  00000000G    EF   9F 01487         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 0148D         CALLS   #3,PAS$WRITE_STRING
                               01   DD 01494         PUSHL   #1
                               20   DD 01496         PUSHL   #32
                  00000000G    EF   9F 01498         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 0149E         CALLS   #3,PAS$WRITE_CHAR
                  FFFF937D     EF   9F 014A5         PUSHAB  C.ANO                         ; 3155
                               0F   DD 014AB         PUSHL   #15
                  00000000G    EF   9F 014AD         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 014B3         CALLS   #3,PAS$WRITE_STRING
02             00 000000E0G    EF   CF 014BA         CASEL   IDATA+224,#0,#2               ; 3157
                             0000V     014C2         .DISPL  272$
                             0000V     014C4         .DISPL  273$
                             0000V     014C6         .DISPL  274$
                               00V  11 014C8         BRB     275$
                  FFFF9368     EF   9F 014CA 272$:   PUSHAB  C.ANP                         ; 3159
                               0B   DD 014D0         PUSHL   #11
                  00000000G    EF   9F 014D2         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 014D8         CALLS   #3,PAS$WRITE_STRING
                               00V  11 014DF         BRB     276$
                  FFFF935D     EF   9F 014E1 273$:   PUSHAB  C.ANQ                         ; 3160
                               0B   DD 014E7         PUSHL   #11
                  00000000G    EF   9F 014E9         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 014EF         CALLS   #3,PAS$WRITE_STRING
                               00V  11 014F6         BRB     276$
                  FFFF9352     EF   9F 014F8 274$:   PUSHAB  C.ANR                         ; 3161
                               0B   DD 014FE         PUSHL   #11
                  00000000G    EF   9F 01500         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 01506         CALLS   #3,PAS$WRITE_STRING
                               00V  11 015CD         BRB     276$
                                       0150F 275$:
               05 00000118G    EF   D1 0150F 276$:   CMPL    IDATA+280,#5                  ; 3169
                               00V  13 01516         BEQL    278$
               02 00000118G    EF   D1 01518         CMPL    IDATA+280,#2
                               00V  13 0151F         BEQL    279$
                  FFFF9335     EF   9F 01521 278$:   PUSHAB  C.ANS                         ; 3172
                               10   DD 01527         PUSHL   #16
                  00000000G    EF   9F 01529         PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03   FB 0152F         CALLS   #3,PAS$WRITE_STRING
                               09   DD 01536         PUSHL   #9
```

```
                                          000000C0G  EF   DD 01538         PUSHL   IDATA+192
                                          00000000G  EF   9F 0153E         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 01544         CALLS   #3,PAS$WRITE_INTEGER
                                                     01   DD 0154B         PUSHL   #1
                                                     20   DD 0154D         PUSHL   #32
                                          00000000G  EF   9F 0154F         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 01555         CALLS   #3,PAS$WRITE_CHAR
                                       05 00000118G  EF   D1 0155C 279$:   CMPL    IDATA+280,#5                                ; 3174
                                                     00V  13 01563         BEQL    281$
                                       03 00000118G  EF   D1 01565         CMPL    IDATA+280,#3
                                                     00V  13 0156C         BEQL    282$
                                          FFFF92F8   EF   9F 0156E 281$:   PUSHAB  C.ANT                                       ; 3177
                                                     10   DD 01574         PUSHL   #16
                                          00000000G  EF   9F 01576         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 0157C         CALLS   #3,PAS$WRITE_STRING
                                                     09   DD 01583         PUSHL   #9
                                          00000088G  EF   DD 01585         PUSHL   IDATA+136
                                          00000000G  EF   9F 0158B         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 01591         CALLS   #3,PAS$WRITE_INTEGER
                                                     01   DD 01598         PUSHL   #1
                                                     20   DD 0159A         PUSHL   #32
                                          00000000G  EF   9F 0159C         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 015A2         CALLS   #3,PAS$WRITE_CHAR
                         00V000000000G  EF           00   E1 015A9 282$:   BBC     #0,REGIS,284$                               ; 3182
                                          FFFF92C5   EF   9F 015B1         PUSHAB  C.ANU                                       ; 3184
                                                     04   DD 015B7         PUSHL   #4
                                          00000000G  EF   9F 015B9         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 015BF         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 015C6         PUSHAB  CRLF
                                                     02   DD 015CC         PUSHL   #2
                                          00000000G  EF   9F 015CE         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 015D4         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 015DB         PUSHAB  CRLF
                                                     02   DD 015E1         PUSHL   #2
                                          00000000G  EF   9F 015E3         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 015E9         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 015F0         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            01   FB 015F6         CALLS   #1,PAS$WRITELN2
                                          00000000G  EF   9F 015FD 284$:   PUSHAB  PAS$FV_OUTPUT                               ; 3186
                            00000000G  EF            01   FB 01603         CALLS   #1,PAS$WRITELN2
                                       03 000000F8G  EF   D1 0160A         CMPL    IDATA+248,#3                                ; 3191
                                                     00V  18 01611         BGEQ    287$
                                          00000000G  EF   9F 01613         PUSHAB  PAS$FV_OUTPUT                               ; 3193
                            00000000G  EF            01   FB 01619         CALLS   #1,PAS$WRITELN2
                                                     00V  11 01620 287$:   BRB     289$
                                                             01622 288$:
                                       50            5C   90 01622 289$:   MOVB    PRE_PROCESS,R0                              ; 3205
                                                          04 01625         RET

; Routine Size: 5670 bytes,    Routine Base: $CODE + 083FC

                                                             00000 VERIFY_PROCESS:                                             ; 3250
                                                        003C 00000         .WORD   ^M<R2,R3,R4,R5>
                                       5C            01   90 00002         MOVB    #1,VERIFY_PROCESS                           ; 3257
                         3C            0B 00000000G  EF   CF 00005         CASEL   QTAB_OFFSET,#11,#60                         ; 3259
                                                   0000V     0000D         .DISPL  1$
                                                   0000V     0000F         .DISPL  1$
```

```
                                        0000V      00011        .DISPL  1$
                                        0000V      00013        .DISPL  1$
                                        0000V      00015        .DISPL  1$
                                        007A       00017        .DISPL  122
                                        007A       00019        .DISPL  122
                                        007A       0001B        .DISPL  122
                                        007A       0001D        .DISPL  122
                                        007A       0001F        .DISPL  122
                                        007A       00021        .DISPL  122
                                        007A       00023        .DISPL  122
                                        007A       00025        .DISPL  122
                                        007A       00027        .DISPL  122
                                        007A       00029        .DISPL  122
                                        007A       0002B        .DISPL  122
                                        007A       0002D        .DISPL  122
                                        007A       0002F        .DISPL  122
                                        007A       00031        .DISPL  122
                                        007A       00033        .DISPL  122
                                        007A       00035        .DISPL  122
                                        007A       00037        .DISPL  122
                                        007A       00039        .DISPL  122
                                        007A       0003B        .DISPL  122
                                        007A       0003D        .DISPL  122
                                        007A       0003F        .DISPL  122
                                        007A       00041        .DISPL  122
                                        007A       00043        .DISPL  122
                                        007A       00045        .DISPL  122
                                        007A       00047        .DISPL  122
                                        007A       00049        .DISPL  122
                                        0000V      0004B        .DISPL  16$
                                        0000V      0004D        .DISPL  11$
                                        0000V      0004F        .DISPL  11$
                                        0000V      00051        .DISPL  11$
                                        007A       00053        .DISPL  122
                                        007A       00055        .DISPL  122
                                        007A       00057        .DISPL  122
                                        007A       00059        .DISPL  122
                                        007A       0005B        .DISPL  122
                                        007A       0005D        .DISPL  122
                                        007A       0005F        .DISPL  122
                                        007A       00061        .DISPL  122
                                        007A       00063        .DISPL  122
                                        007A       00065        .DISPL  122
                                        007A       00067        .DISPL  122
                                        007A       00069        .DISPL  122
                                        007A       0006B        .DISPL  122
                                        007A       0006D        .DISPL  122
                                        007A       0006F        .DISPL  122
                                        007A       00071        .DISPL  122
                                        007A       00073        .DISPL  122
                                        007A       00075        .DISPL  122
                                        0000V      00077        .DISPL  51$
                                        007A       00079        .DISPL  122
                                        007A       0007B        .DISPL  122
                                        007A       0007D        .DISPL  122
                                        007A       0007F        .DISPL  122
                                        007A       00081        .DISPL  122
```

```
                                               0000V      00083          .DISPL   45$
                                               0000V      00085          .DISPL   57$
                                               0000V   31 00087          BRW      93$
                                   50 00000000G   EF   D0 0008A 1$:      MOVL     QTAB_OFFSET,R0                              ; 3269
                                   50 FFFFFFB0GEF40    7E 00091          MOVAQ    SDATA-80[R0],R0
                                                  60   B5 00099          TSTW     (R0)
                                                 00V   12 0009B          BNEQ     3$
                                   51 00000000G   EF   D0 0009D          MOVL     QTAB_OFFSET,R1                              ; 3273
                                      FFFFFFF9GEF41    94 000A4          CLRB     BDATA-7[R1]
                                               0000V   31 000AB          BRW      94$
00000000G  EF                   60          10    00   ED 000AE 3$:      CMPZV    #0,#16,(R0),MAX_STRING_ANSWER_LENGTH        ; 3281
                                                 00V   15 000B7          BLEQ     8$
                        00V00000000G   EF         00   E1 000B9          BBC      #0,OPTIMIZING,6$                            ; 3287
                                   60 00000000G   EF   B0 000C1          MOVW     MAX_STRING_ANSWER_LENGTH,(R0)               ; 3291
                                   51 00000000G   EF   D0 000C8          MOVL     QTAB_OFFSET,R1                              ; 3293
                          FFFFFFF9GEF41           01   90 000CF          MOVB     #1,BDATA-7[R1]
                                               0000V   31 000D7          BRW      94$
                                                  50   DD 000DA 6$:      PUSHL    R0                                          ; 3301
                          00000000G  EF           01   FB 000DC          CALLS    #1,STR$FREE1_DX
                                                  5C   94 000E3          CLRB     VERIFY_PROCESS                              ; 3302
                                               0000V   31 000E5          BRW      94$
                                   50 00000000G   EF   D0 000E8 8$:      MOVL     QTAB_OFFSET,R0                              ; 3310
                          FFFFFFF9GEF40           01   90 000EF          MOVB     #1,BDATA-7[R0]
                                               0000V   31 000F7          BRW      94$
                                   50 00000000G   EF   D0 000FA 11$:     MOVL     QTAB_OFFSET,R0                              ; 3320
                                   50 00000000GEF40    DE 00101          MOVAL    IDATA[R0],R0
                                   32             60   D1 00109          CMPL     (R0),#50
                                                 00V   18 0010C          BGEQ     15$
                                   60             32   D0 0010E          MOVL     #50,(R0)                                    ; 3324
                        00V00000000G   EF         00   E0 00111          BBS      #0,AUTO_TUNE,14$                            ; 3326
                                      00000000G   EF   9F 00119          PUSHAB   SHIFT                                       ; 3330
                                                  04   DD 0011F          PUSHL    #4
                                      00000000G   EF   9F 00121          PUSHAB   PAS$FV_OUTPUT
                          00000000G  EF           03   FB 00127          CALLS    #3,PAS$WRITE_STRING
                                      FFFF9126    EF   9F 0012E          PUSHAB   C.ANV
                                                  1B   DD 00134          PUSHL    #27
                                      00000000G   EF   9F 00136          PUSHAB   PAS$FV_OUTPUT
                          00000000G  EF           03   FB 0013C          CALLS    #3,PAS$WRITE_STRING
                                      00000000G   EF   9F 00143          PUSHAB   PAS$FV_OUTPUT
                          00000000G  EF           01   FB 00149          CALLS    #1,PAS$WRITELN2
                                      00004140    8F   DF 00150          PUSHAF   #^F3.0                                      ; 3331
                          00000000G  EF           01   FB 00156          CALLS    #1,LIB$WAIT
                                                          0015D 14$:
                                               0000V   31 0015D 15$:     BRW      94$
                                   05 00000118G   EF   D1 00160 16$:     CMPL     IDATA+280,#5                                ; 3344
                                                 00V   13 00167          BEQL     31$
                                      00000118G   EF   D5 00169          TSTL     IDATA+280                                   ; 3346
                                                 00V   12 0016F          BNEQ     19$
                                   2B 00000000G   EF   D1 00171          CMPL     INPUT_VALUE,#43
                                                 00V   13 00178          BEQL     29$
                                   02 00000118G   EF   D1 0017A 19$:     CMPL     IDATA+280,#2
                                                 00V   12 00181          BNEQ     21$
                                   30 00000000G   EF   D1 00183          CMPL     INPUT_VALUE,#48
                                                 00V   13 0018A          BEQL     29$
                                   03 00000118G   EF   D1 0018C 21$:     CMPL     IDATA+280,#3
                                                 00V   12 00193          BNEQ     23$
                                   22 00000000G   EF   D1 00195          CMPL     INPUT_VALUE,#34
```

```
                                 00V   13 0019C          BEQL    29$
                 01 00000118G    EF    D1 0019E  23$:    CMPL    IDATA+280,#1
                                 00V   12 001A5          BNEQ    25$
                 3A 00000000G    EF    D1 001A7          CMPL    INPUT_VALUE,#58
                                 00V   13 001AE          BEQL    29$
                 04 00000118G    EF    D1 001B0  25$:    CMPL    IDATA+280,#4
                                 00V   12 001B7          BNEQ    27$
                 36 00000000G    EF    D1 001B9          CMPL    INPUT_VALUE,#54
                                 00V   13 001C0          BEQL    29$
        00000100 8F 000000DCG    EF    D1 001C2  27$:    CMPL    IDATA+220,#256
                                 00V   1E 001CD          BGEQU   28$
     00VFFFF909B EF 000000DCG    EF    E0 001CF          BBS     IDATA+220,C.ANW,31$
                 36 00000000G    EF    D1 001DB  28$:    CMPL    INPUT_VALUE,#54
                                 00V   12 001E2          BNEQ    31$
                                 5C    94 001E4  29$:    CLRB    VERIFY_PROCESS                               ; 3368
                    00000084G    EF    D5 001E6  31$:    TSTL    IDATA+T32                                    ; 3374
                                 00V   13 001EC          BEQL    34$
        00000100 8F 00000000G    EF    D1 001EE          CMPL    INPUT_VALUE,#256
                                 00V   1E 001F9          BGEQU   34$
     00VFFFF908F EF 00000000G    EF    E1 001FB          BBC     INPUT_VALUE,C.ANX,34$
                                 5C    94 00207          CLRB    VERIFY_PROCESS                               ; 3379
                 03 000000F8G    EF    D1 00209  34$:    CMPL    IDATA+248,#3                                 ; 3381
                                 00V   18 00210          BGEQ    37$
        00000100 8F 00000000G    EF    D1 00212          CMPL    INPUT_VALUE,#256
                                 00V   1E 0021D          BGEQU   37$
     00VFFFF908B EF 00000000G    EF    E1 0021F          BBC     INPUT_VALUE,C.ANY,37$
                                 5C    94 0022B          CLRB    VERIFY_PROCESS                               ; 3386
                 01 000000C0G    EF    D1 0022D  37$:    CMPL    IDATA+T92,#1                                 ; 3388
                                 00V   18 00234          BGEQ    40$
                 38 00000000G    EF    D1 00236          CMPL    INPUT_VALUE,#56
                                 00V   12 0023D          BNEQ    40$
                                 5C    94 0023F          CLRB    VERIFY_PROCESS                               ; 3391
                 01 000000C0G    EF    D1 00241  40$:    CMPL    IDATA+T92,#1                                 ; 3393
                                 00V   18 00248          BGEQ    44$
                 2B 00000000G    EF    D1 0024A          CMPL    INPUT_VALUE,#43
                                 00V   12 00251          BNEQ    44$
    00V00000000G EF              00    E0 00253          BBS     #0,AUTO_TUNE,44$
                    00000000G    EF    9F 0025B          PUSHAB  SHIFT                                        ; 3403
                                 04    DD 00261          PUSHL   #4
                    00000000G    EF    9F 00263          PUSHAB  PAS$FV_OUTPUT
       00000000G EF              03    FB 00269          CALLS   #3,PAS$WRITE_STRING
                    00000000G    EF    9F 00270          PUSHAB  ANSI_REVERSE
                                 04    DD 00276          PUSHL   #4
                    00000000G    EF    9F 00278          PUSHAB  PAS$FV_OUTPUT
       00000000G EF              03    FB 0027E          CALLS   #3,PAS$WRITE_STRING
                    FFFF904B     EF    9F 00285          PUSHAB  C.ANZ
                                 35    DD 0028B          PUSHL   #53
                    00000000G    EF    9F 0028D          PUSHAB  PAS$FV_OUTPUT
       00000000G EF              03    FB 00293          CALLS   #3,PAS$WRITE_STRING
                    00000000G    EF    9F 0029A          PUSHAB  ANSI_RESET
                                 04    DD 002A0          PUSHL   #4
                    00000000G    EF    9F 002A2          PUSHAB  PAS$FV_OUTPUT
       00000000G EF              03    FB 002A8          CALLS   #3,PAS$WRITE_STRING
                    00000000G    EF    9F 002AF          PUSHAB  PAS$FV_OUTPUT
       00000000G EF              01    FB 002B5          CALLS   #1,PAS$WRITELN2
                    00004140     8F    DF 002BC          PUSHAF  #^F3.0                                       ; 3406
       00000000G EF              01    FB 002C2          CALLS   #1,LIB$WAIT
```

```
                                                   0000V 31 002C9 44$:     BRW     94$
                                         00000084G  EF   D5 002CC 45$:     TSTL    IDATA+132                                  ; 3419
                                                     00V 13 002D2          BEQL    50$
                                      01 00000000G  EF   D1 002D4          CMPL    INPUT_VALUE,#1
                                                     00V 13 002DB          BEQL    49$
                                      02 00000000G  EF   D1 002DD          CMPL    INPUT_VALUE,#2
                                                     00V 13 002E4          BEQL    49$
                                      03 00000000G  EF   D1 002E6          CMPL    INPUT_VALUE,#3
                                                     00V 12 002ED          BNEQ    50$
                                                    5C   94 002EF 49$:     CLRB    VERIFY_PROCESS                             ; 3431
                                                   0000V 31 002F1 50$:     BRW     94$
                            00000100G EF 00000000G  EF   D0 002F4 51$:     MOVL    INPUT_VALUE,IDATA+256                      ; 3439
                         00V00000000G EF            00   E1 002FF          BBC     #0,ISAM_ORG,53$                            ; 3445
                            00000100  8F 00000100G  EF   D1 00307          CMPL    IDATA+256,#256
                                                     00V 1E 00312          BGEQU   55$
                         00VFFFF8FEE  EF 00000100G  EF   E1 00314          BBC     IDATA+256,C.AOA,55$
                                      03 00000108G  EF   D1 00320 53$:     CMPL    IDATA+264,#3
                                                    03   13 00327          BEQL    .+3
                                                   0000V 31 00329          BRW     94$
                            00000100  8F 00000100G  EF   D1 0032C          CMPL    IDATA+256,#256
                                                    03   1F 00337          BLSSU   .+3
                                                   0000V 31 00339          BRW     94$
                         03 FFFF8FE6  EF 00000100G  EF   E0 0033C          BBS     IDATA+256,C.AOB,.+3
                                                   0000V 31 00348          BRW     94$
                                                    5C   94 0034B 55$:     CLRB    VERIFY_PROCESS                             ; 3459
                                                   0000V 31 0034D          BRW     94$
                                         00000000G  EF   94 00350 57$:     CLRB    TEST                                       ; 3467
                            00000019G EF 00000000G  EF   90 00356          MOVB    INPUT_VALUE,TEST+25                        ; 3468
                            0000001AG EF 00000000G  EF   D0 00361          MOVL    INPUT_NUMBER,TEST+26                       ; 3469
                            00000000G EF 00000000G  EF   D0 0036C          MOVL    INPUT_NUMBER,DEFAULT_PRINUM                ; 3470
                            00000000G EF 00000019G  EF   90 00377          MOVB    TEST+25,ACTIVE_PRIMARY                     ; 3471
                            00000000G EF 00000000G  EF   90 00382          MOVB    ACTIVE_PRIMARY,DEFAULT_PRIMARY             ; 3472
                         50 00000000G EF            19   C5 0038D          MULL3   #25,QTAB_OFFSET,R0                         ; 3473
              FFFFFEF2GEF40 00000000G EF            04   28 00395          MOVC3   #4,INPUT_VALUE,QTAB-270[R0]
                                      05 00000019G  EF   91 003A2          CMPB    TEST+25,#5                                 ; 3475
                                                     00V 13 003A9          BEQL    59$
                                      0B 00000019G  EF   91 003AB          CMPB    TEST+25,#11
                                                    03   13 003B2          BEQL    .+3
                                                   0000V 31 003B4          BRW     78$
0000001AG  EF       FE   8F           08            00   ED 003B7 59$:     CMPZV   #0,#8,#^XFE,TEST+26                        ; 3483
                                                     00V 18 003C1          BGEQ    61$
                                                    5C   94 003C3          CLRB    VERIFY_PROCESS                             ; 3485
                                                01  8F   9F 003C5 61$:     PUSHAB  #1                                         ; 3487
                            00000000G EF            01   FB 003C8          CALLS   #1,SCAN_DEFINITION
                         00V00000000G EF            00   E1 003CF          BBC     #0,FOUND_AREA,65$                          ; 3489
                                      05 00000019G  EF   91 003D7          CMPB    TEST+25,#5
                                                     00V 12 003DE          BNEQ    65$
                         50 0000001AG EF 00000000G  EF   C3 003E0          SUBL3   HIGH_AREA,TEST+26,R0
                                      01            50   D1 003EC          CMPL    R0,#T
                                                     00V 15 003EF          BLEQ    65$
                                                    5C   94 003F1          CLRB    VERIFY_PROCESS                             ; 3497
                         00V00000000G EF            00   E1 003F3 65$:     BBC     #0,FOUND_KEY,69$                           ; 3499
                                      0B 00000019G  EF   91 003FB          CMPB    TEST+25,#11
                                                     00V 12 00402          BNEQ    69$
                         50 0000001AG EF 00000000G  EF   C3 00404          SUBL3   HIGH_KEY,TEST+26,R0
                                      01            50   D1 00410          CMPL    R0,#T
                                                     00V 15 00413          BLEQ    69$
                                      5C  94 00415          CLRB     VERIFY_PROCESS                          ; 3507
        00v00000000G  EF              00  E0 00417 69$:     BBS      #0,FOUND_AREA,73$                       ; 3509
                      05   00000019G  EF  91 0041F          CMPB     TEST+25,#5
                                      00V 12 00426          BNEQ     73$
                           0000001AG  EF  D5 00428          TSTL     TEST+26
                                      00V 15 0042E          BLEQ     73$
                                      5C  94 00430          CLRB     VERIFY_PROCESS                          ; 3517
        00v00000000G  EF              00  E0 00432 73$:     BBS      #0,FOUND_KEY,79$                        ; 3519
                      0B   00000019G  EF  91 0043A          CMPB     TEST+25,#11
                                      00V 12 00441          BNEQ     79$
                           0000001AG  EF  D5 00443          TSTL     TEST+26
                                      00V 15 00449          BLEQ     79$
                                      5C  94 0044B          CLRB     VERIFY_PROCESS                          ; 3527
                                      00V 11 0044D          BRB      79$
                           0000001AG  EF  D4 0044F 78$:     CLRL     TEST+26                                 ; 3533
        00v00000000G  EF              00  E0 00455 79$:     BBS      #0,FULL_CHOICE,94$                      ; 3538
           00000000G  EF   00000000G  EF  D0 0045D          MOVL     DEF_HEAD,DEF_CURRENT                    ; 3542
                                  00  8F  9F 00468 81$:     PUSHAB   #0                                      ; 3546
                           00000000G  EF  9F 0046B          PUSHAB   TEST
           00000000G  EF              02  FB 00471          CALLS    #2,CURRENT_EQ_TEST
                      00V             50  E8 00478          BLBS     R0,83$
           00000000G  EF              00  FB 0047B          CALLS    #0,INCR_CURRENT                         ; 3548
                                  00  8F  9F 00482 83$:     PUSHAB   #0
                           00000000G  EF  9F 00485          PUSHAB   TEST
           00000000G  EF              02  FB 0048B          CALLS    #2,CURRENT_EQ_TEST
                                      51  94 00492          CLRB     R1
                      52   00000000G  EF  D0 00494          MOVL     DEF_CURRENT,R2
                                  01  A2  D5 0049B          TSTL     1(R2)
                                      00V 12 0049E          BNEQ     85$
                                      51  96 004A0          INCB     R1
                      51              50  88 004A2 85$:     BISB2    R0,R1
                      C0              51  E9 004A5          BLBC     R1,81$
                           00000000G  EF  D5 004A8          TSTL     DEF_CURRENT                             ; 3552
                                      00V 13 004AE          BEQL     90$
                                  00  8F  9F 004B0          PUSHAB   #0                                      ; 3556
                           00000000G  EF  9F 004B3          PUSHAB   TEST
           00000000G  EF              02  FB 004B9          CALLS    #2,CURRENT_EQ_TEST
                      00V             50  E8 004C0          BLBS     R0,94$
                                      5C  94 004C3          CLRB     VERIFY_PROCESS                          ; 3558
                                      00V 11 004C5          BRB      94$
                                      5C  94 004C7 90$:     CLRB     VERIFY_PROCESS                          ; 3564
                                      00V 11 004C9          BRB      94$
                                             004CB 93$:
                      50              5C  90 004CB 94$:     MOVB     VERIFY_PROCESS,R0                       ; 3576
                                          04 004CE          RET

; Routine Size: 1231 bytes,    Routine Base: $CODE + 09A22

                                             00000 POST_PROCESS:                                             ; 3621
                                        003C 00000          .WORD    ^M<R2,R3,R4,R5>
                      5E              04  C2 00002          SUBL2    #4,SP
                      5C              01  90 00005          MOVB     #1,POST_PROCESS                         ; 3631
    00000042    8F    05   00000000G  EF  CF 00008          CASEL    QTAB_OFFSET,#5,#66                      ; 3633
                                     0000V   00014          .DISPL   8$
                                      0086   00016          .DISPL   134
                                      0086   00018          .DISPL   134
                                      0086   0001A          .DISPL   134
```

```
0086       0001C         .DISPL   134
0086       0001E         .DISPL   134
0086       00020         .DISPL   134
0086       00022         .DISPL   134
0086       00024         .DISPL   134
0000V      00026         .DISPL   6$
0086       00028         .DISPL   134
0000V      0002A         .DISPL   16$
0000V      0002C         .DISPL   16$
0000V      0002E         .DISPL   16$
0000V      00030         .DISPL   1$
0000V      00032         .DISPL   1$
0000V      00034         .DISPL   1$
0000V      00036         .DISPL   1$
0000V      00038         .DISPL   1$
0000V      0003A         .DISPL   1$
0000V      0003C         .DISPL   1$
0000V      0003E         .DISPL   1$
0000V      00040         .DISPL   1$
0086       00042         .DISPL   134
0086       00044         .DISPL   134
0000V      00046         .DISPL   1$
0000V      00048         .DISPL   20$
0086       0004A         .DISPL   134
0086       0004C         .DISPL   134
0086       0004E         .DISPL   134
0000V      00050         .DISPL   48$
0000V      00052         .DISPL   49$
0086       00054         .DISPL   134
0000V      00056         .DISPL   5$
0000V      00058         .DISPL   4$
0000V      0005A         .DISPL   41$
0000V      0005C         .DISPL   56$
0000V      0005E         .DISPL   4$
0000V      00060         .DISPL   55$
0000V      00062         .DISPL   48$
0000V      00064         .DISPL   49$
0000V      00066         .DISPL   26$
0000V      00068         .DISPL   4$
0086       0006A         .DISPL   134
0000V      0006C         .DISPL   48$
0000V      0006E         .DISPL   49$
0000V      00070         .DISPL   37$
0000V      00072         .DISPL   48$
0000V      00074         .DISPL   49$
0000V      00076         .DISPL   38$
0000V      00078         .DISPL   4$
0000V      0007A         .DISPL   4$
0086       0007C         .DISPL   134
0086       0007E         .DISPL   134
0000V      00080         .DISPL   42$
0000V      00082         .DISPL   5$
0000V      00084         .DISPL   36$
0000V      00086         .DISPL   45$
0000V      00088         .DISPL   10$
0000V      0008A         .DISPL   57$
0000V      0008C         .DISPL   4$
```

```
                                        0000V     0008E          .DISPL  13$
                                        0000V     00090          .DISPL  4$
                                        0000V     00092          .DISPL  48$
                                        0000V     00094          .DISPL  49$
                                        0000V     00096          .DISPL  5$
                                        0000V     00098          .DISPL  61$
                                        0000V  31 0009A          BRW     67$
                                           50  94 0009D  1$:     CLRB    R0                                    ; 3651
                      01 00000000G         EF  D1 0009F          CMPL    INPUT_VALUE,#1
                                          00V  12 000A6          BNEQ    3$
                                           50  96 000A8          INCB    R0
             00000000G  EF                 50  90 000AA  3$:     MOVB    R0,QUERY_FLAG
                      50 00000000G         EF  D0 000B1          MOVL    QTAB_OFFSET,R0                        ; 3652
             FFFFFFF9GEF40 00000000G       EF  90 000B8          MOVB    QUERY_FLAG,BDATA-7[R0]
                                        0000V  31 000C4          BRW     68$
                      50 00000000G         EF  D0 000C7  4$:     MOVL    QTAB_OFFSET,R0                        ; 3667
             00000000GEF40 00000000G       EF  D0 000CE          MOVL    INPUT_VALUE,IDATA[R0]
                                        0000V  31 000DA          BRW     68$
                      50 00000000G         EF  D0 000DD  5$:     MOVL    QTAB_OFFSET,R0                        ; 3678
             00000000GEF40 00000000G       EF  D0 000E4          MOVL    INPUT_VALUE,IDATA[R0]
          50 00000000G  EF                 19  C5 000F0          MULL3   #25,QTAB_OFFSET,R0                    ; 3679
     FFFFFEF2GEF40 00000000G  EF           04  28 000F8          MOVC3   #4,INPUT_VALUE,QTAB-270[R0]
                                        0000V  31 00105          BRW     68$
             00000000G  EF 00000000G       EF  7D 00108  6$:     MOVQ    NULL_STRING,ANALYSIS_FILENAME_DESC    ; 3687
                           00000000G       EF  9F 00113          PUSHAB  ANALYSIS_FILENAME_DESC                ; 3688
                           00000020G       EF  9F 00119          PUSHAB  SDATA+32
             00000000G  EF                 02  FB 0011F          CALLS   #2,LIB$SCOPY_DXDX
             00000000G  EF                 01  90 00126          MOVB    #1,ANALYSIS_SPECIFIED                 ; 3689
                                        0000V  31 0012D          BRW     68$
             00000000G  EF 00000000G       EF  7D 00130  8$:     MOVQ    NULL_STRING,OUTPUT_FILENAME_DESC      ; 3697
                           00000000G       EF  9F 0013B          PUSHAB  OUTPUT_FILENAME_DESC                  ; 3698
                           00000028G       EF  9F 00141          PUSHAB  SDATA+40
             00000000G  EF                 02  FB 00147          CALLS   #2,LIB$SCOPY_DXDX
                                        0000V  31 0014E          BRW     68$
                      50 00000000G         EF  D0 00151  10$:    MOVL    QTAB_OFFSET,R0                        ; 3706
             00000000GEF40 00000000G       EF  D0 00158          MOVL    INPUT_VALUE,IDATA[R0]
                                           50  94 00164          CLRB    R0                                    ; 3707
                           00000000G       EF  D5 00166          TSTL    INPUT_VALUE
                                          00V  12 0016C          BNEQ    12$
                                           50  96 0016E          INCB    R0
             00000000G  EF                 50  90 00170  12$:    MOVB    R0,FULL_PROMPT
                                        0000V  31 00177          BRW     68$
                      50 00000000G         EF  D0 0017A  13$:    MOVL    QTAB_OFFSET,R0                        ; 3715
             00000000GEF40 00000000G       EF  D0 00181          MOVL    INPUT_VALUE,IDATA[R0]
                                           50  94 0018D          CLRB    R0                                    ; 3717
             00000100   8F 00000000G       EF  D1 0018F          CMPL    INPUT_VALUE,#256
                                          00V  1E 0019A          BGEQU   15$
         00VFFFF8CD7    EF 00000000G       EF  E1 0019C          BBC     INPUT_VALUE,C.AOC,15$
                                           50  96 001A8          INCB    R0
             00000000G  EF                 50  90 001AA  15$:    MOVB    R0,ISAM_ORG
                                        0000V  31 001B1          BRW     68$
                      50 00000000G         EF  D0 001B4  16$:    MOVL    QTAB_OFFSET,R0                        ; 3735
                      50 00000000GEF40         DE 001BB          MOVAL   IDATA[R0],R0
                      51                   60  D0 001C3          MOVL    (R0),R1
                                          00V  18 001C6          BGEQ    17$
                      51                   51  CE 001C8          MNEGL   R1,R1
 51      63   8F      07                   00  ED 001CB  17$:    CMPZV   #0,#7,#^X63,R1
```

```
                                    00V  18 001D1        BGEQ    19$
                                     60  D4 001D3        CLRL    (R0)                               ; 3737
                       50 00000000G  EF  D0 001D5 19$:   MOVL    QTAB_OFFSET,R0                     ; 3739
                       51 00000000G  EF  D0 001DC        MOVL    QTAB_OFFSET,R1
            FFFFFFE0GEF40 00000000GEF41  4E 001E3        CVTLF   IDATA[R1],RDATA-32[R0]
                       50 00000000G  EF  D0 001F0        MOVL    QTAB_OFFSET,R0                     ; 3740
                       50 FFFFFFE0GEF40  DE 001F7        MOVAL   RDATA-32[R0],R0
                       60 000043C8   8F  46 001FF        DIVF2   #^F100.0,(R0)
                                  0000V  31 00206        BRW     68$
          03 00000000G EF            00  E1 00209 20$:   BBC     #0,AUTO_TUNE,.+3                   ; 3748
                                  0000V  31 00211        BRW     68$
          00V00000000G EF            00  E1 00214        BBC     #0,REGIS,23$                       ; 3755
                          FFFF8C7D   EF  9F 0021C        PUSHAB  C.AOD                              ; 3757
                                     0B  DD 00222        PUSHL   #11
                          00000000G  EF  9F 00224        PUSHAB  PAS$FV_OUTPUT
             00000000G EF            03  FB 0022A        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 00231        PUSHAB  PAS$FV_OUTPUT
             00000000G EF            01  FB 00237        CALLS   #1,PAS$WRITELN2
                          00000000G  EF  9F 0023E 23$:   PUSHAB  COL_ONE                            ; 3759
                          00000000G  EF  9F 00244        PUSHAB  LINE_ONE
             00000000G EF            02  FB 0024A        CALLS   #2,LIB$ERASE_PAGE
                                  0000V  31 00251        BRW     68$
          00V00000000G EF            00  E0 00254 26$:   BBS     #0,GLOBAL_SET,33$                  ; 3773
                          00000000G  EF  D4 0025C        CLRL    PRIMARY_INDEX_BUCKETS              ; 3784
                       50            01  D0 00262        MOVL    #1,R0                              ; 3786
                       51            50  D0 00265 28$:   MOVL    R0,I
                       52 00000000GEF41  DE 00268        MOVAL   INIT_PRIMARY_BUCKETS[I],R2         ; 3790
             00000200  8F            62  D1 00270        CMPL    (R2),#512
                                    00V  15 00277        BLEQ    30$
                       62     0200   8F  3C 00279        MOVZWL  #512,(R2)                          ; 3792
                       53 00000000GEF41  DE 0027E 30$:   MOVAL   ADDED_PRIMARY_BUCKETS[I],R3        ; 3794
             00000200  8F            63  D1 00286        CMPL    (R3),#512
                                    00V  15 0028D        BLEQ    32$
                       63     0200   8F  3C 0028F        MOVZWL  #512,(R3)                          ; 3796
          52 00000000G EF            62  C1 00294 32$:   ADDL3   (R2),PRIMARY_INDEX_BUCKETS,R2      ; 3798
00000000G EF           63            52  C1 0029C        ADDL3   R2,(R3),PRIMARY_INDEX_BUCKETS
          BD           50            1F  F3 002A4        AOBLEQ  #31,R0,28$
                       50 00000000G  EF  D0 002A8        MOVL    PRIMARY_INDEX_BUCKETS,R0           ; 3808
                       51 000000F0G  EF  D0 002AF        MOVL    IDATA+240,R1
             000000B8G EF       04 A140  9E 002B6        MOVAB   4(R1)[R0],IDATA+184
             00007FFF  8F 000000B8G  EF  D1 002BF 33$:   CMPL    IDATA+184,#32767                   ; 3816
                                     03  14 002CA        BGTR    .+3
                                  0000V  31 002CC        BRW     68$
             000000B8G EF     7FFF   8F  3C 002CF        MOVZWL  #32767,IDATA+184                   ; 3818
                                  0000V  31 002D8        BRW     68$
                       51 00000000G  EF  D0 002DB 36$:   MOVL    QTAB_OFFSET,R1                     ; 3824
             000000C0G EF 00000000GEF41  D0 002E2        MOVL    IDATA[R1],IDATA+192
                                  0000V  31 002EE        BRW     68$
                       51 00000000G  EF  D0 002F1 37$:   MOVL    SEGMENT_NUMBER,R1                  ; 3828
                       50 00000000G  EF  D0 002F8        MOVL    QTAB_OFFSET,R0
            00000000GEF41 00000000GEF40  D0 002FF        MOVL    IDATA[R0],SEGMENT_POSITION[R1]
                                  0000V  31 0030C        BRW     68$
                       51 00000000G  EF  D0 0030F 38$:   MOVL    SEGMENT_NUMBER,R1                  ; 3834
                                     50  94 00316        CLRB    R0
                          000000D8G  EF  D5 00318        TSTL    IDATA+216
                                    00V  15 0031E        BLEQ    40$
                                     50  96 00320        INCB    R0
```

```
                  00000000GEF41         50    90 00322 40$:    MOVB    R0,SEGMENT_WANTED[R1]
                          51 00000000G  EF    D0 0032A         MOVL    SEGMENT_NUMBER,R1                          ; 3835
                          50 00000000G  EF    D0 00331         MOVL    QTAB_OFFSET,R0
                  00000000GEF41 00000000GEF40 D0 00338         MOVL    IDATA[R0],SEGMENT_LENGTH[R1]
                                     0000V    31 00345         BRW     68$
                          51 00000000G  EF    D0 00348 41$:    MOVL    QTAB_OFFSET,R1                             ; 3841
                  00000000G  EF 00000000GEF41 C2 0034F         SUBL2   IDATA[R1],CUR_MAX_REC
                                     0000V    31 0035B         BRW     68$
                          51 00000000G  EF    D0 0035E 42$:    MOVL    QTAB_OFFSET,R1                             ; 3845
                          51 00000000GEF41    DE 00365         MOVAL   IDATA[R1],R1
                                        61    D5 0036D         TSTL    (R1)
                                        03    19 0036F         BLSS    .+3
                                     0000V    31 00371         BRW     68$
                                        61    D4 00374         CLRL    (R1)                                       ; 3847
                                     0000V    31 00376         BRW     68$
                          03 000000F8G  EF    D1 00379 45$:    CMPL    IDATA+248,#3                               ; 3853
                                        03    19 00380         BLSS    .+3
                                     0000V    31 00382         BRW     68$
                             00000024G  EF    D4 00385         CLRF    RDATA+36                                   ; 3857
                             00000020G  EF    D4 0038B         CLRF    RDATA+32                                   ; 3858
                             00000028G  EF    D4 00391         CLRF    RDATA+40                                   ; 3859
                                     0000V    31 00397         BRW     68$
                          51 00000000G  EF    D0 0039A 48$:    MOVL    QTAB_OFFSET,R1                             ; 3873
                  00000014G  EF 00000000GEF41 D0 003A1         MOVL    IDATA[R1],IDATA+20
               51 00000000G  EF         19    C5 003AD         MULL3   #25,QTAB_OFFSET,R1                         ; 3874
                          50 00000000G  EF    D0 003B5         MOVL    QTAB_OFFSET,R0
                     FC   AD 00000000GEF40    DE 003BC         MOVAL   IDATA[R0],-4(FP)
    FFFFFF0FGEF41    FC   BD            04    28 003C5         MOVC3   #4,@-4(FP),QTAB-241[R1]
                                     0000V    31 003CF         BRW     68$
                          50 00000000G  EF    D0 003D2 49$:    MOVL    QTAB_OFFSET,R0                             ; 3886
                  00000010G  EF 00000000GEF40 D0 003D9         MOVL    IDATA[R0],IDATA+16
               21         24 00000000G  EF    CF 003E5         CASEL   QTAB_OFFSET,#36,#33                        ; 3888
                                     0000V       003ED         .DISPL  52$
                                     0044        003EF         .DISPL  68
                                     0044        003F1         .DISPL  68
                                     0044        003F3         .DISPL  68
                                     0044        003F5         .DISPL  68
                                     0044        003F7         .DISPL  68
                                     0044        003F9         .DISPL  68
                                     0044        003FB         .DISPL  68
                                     0044        003FD         .DISPL  68
                                     0000V       003FF         .DISPL  50$
                                     0044        00401         .DISPL  68
                                     0044        00403         .DISPL  68
                                     0044        00405         .DISPL  68
                                     0044        00407         .DISPL  68
                                     0000V       00409         .DISPL  52$
                                     0044        0040B         .DISPL  68
                                     0044        0040D         .DISPL  68
                                     0000V       0040F         .DISPL  52$
                                     0044        00411         .DISPL  68
                                     0044        00413         .DISPL  68
                                     0044        00415         .DISPL  68
                                     0044        00417         .DISPL  68
                                     0044        00419         .DISPL  68
                                     0044        0041B         .DISPL  68
                                     0044        0041D         .DISPL  68
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                                                   0044       0041F         .DISPL  68
                                                   0044       00421         .DISPL  68
                                                   0044       00423         .DISPL  68
                                                   0044       00425         .DISPL  68
                                                   0044       00427         .DISPL  68
                                                   0044       00429         .DISPL  68
                                                   0044       0042B         .DISPL  68
                                                   0044       0042D         .DISPL  68
                                                   0000V      0042F         .DISPL  51$
                                                     00V   11 00431         BRB     53$
                                           00000064  8F    DF 00433 50$:    PUSHAL  #100                                       ; 3890
                                           00000032  8F    DF 00439         PUSHAL  #50
                                 7FC1  CF            02    FB 0043F         CALLS   #2,SPREAD_LOW_HIGH
                                                     00V   11 00444         BRB     54$
                                          00000000G  EF    9F 00446 51$:    PUSHAB  CUR_MAX_REC                                ; 3892
                                           00000001  8F    DF 0044C         PUSHAL  #1
                                 7FC1  CF            02    FB 00452         CALLS   #2,SPREAD_LOW_HIGH
                                                     00V   11 00457         BRB     54$
                                           7FFFFFFE  8F    DF 00459 52$:    PUSHAL  #2147483646                                ; 3896
                                           00000001  8F    DF 0045F         PUSHAL  #1
                                 7FC1  CF            02    FB 00465         CALLS   #2,SPREAD_LOW_HIGH
                                                     00V   11 0046A         BRB     54$
                                                              0046C 53$:
                                                     00V   11 0046C 54$:    BRB     68$
                            00000000G  EF 000000ACG  EF    D0 0046E 55$:    MOVL    IDATA+172,IDATA                            ; 3908
                                                     00V   11 00479         BRB     68$
                                       50 00000000G  EF    D0 0047B 56$:    MOVL    QTAB_OFFSET,R0                             ; 3914
                            00000000GEF40 00000000G  EF    D0 00482         MOVL    INPUT_VALUE,IDATA[R0]
                            00000108G  EF            07    D0 0048E         MOVL    #7,IDATA+264                               ; 3919
                                          00000000G  EF    94 00495         CLRB    MAIN_LEVEL                                 ; 3924
                                                     00V   11 0049B         BRB     68$
                                                     50    94 0049D 57$:    CLRB    R0                                         ; 3939
                                       0D 00000100G  EF    D1 0049F         CMPL    IDATA+256,#13
                                                     00V   13 004A6         BEQL    60$
                                       0C 00000100G  EF    D1 004A8         CMPL    IDATA+256,#12
                                                     00V   13 004AF         BEQL    60$
                                                     50    96 004B1         INCB    R0
                            00000000G  EF            50    90 004B3 60$:    MOVB    R0,VARIABLE_RECORDS
                                                     00V   11 004BA         BRB     68$
                                       05 00000000G  EF    91 004BC 61$:    CMPB    ACTIVE_PRIMARY,#5                          ; 3951
                                                     00V   12 004C3         BNEQ    63$
                            00000000G  EF 00000000G  EF    D0 004C5         MOVL    INPUT_NUMBER,ACTIVE_AREA                   ; 3953
                                                     00V   11 004D0         BRB     68$
                                       0B 00000000G  EF    91 004D2 63$:    CMPB    ACTIVE_PRIMARY,#11                         ; 3955
                                                     00V   12 004D9         BNEQ    68$
                            00000084G  EF 00000000G  EF    D0 004DB         MOVL    INPUT_NUMBER,IDATA+132                     ; 3957
                                                     00V   11 004E6         BRB     68$
                                                              004E8 67$:
                                       50            5C    90 004E8 68$:    MOVB    POST_PROCESS,R0                            ; 3967
                                                           04 004EB         RET

; Routine Size: 1260 bytes,    Routine Base: $CODE + 09EF1

                                                         0000 00000        .ENTRY   QUERY,^M<>                                 ; 4016
                                       5C       04   BC    D0 00002        MOVL     @4(R12),OFFSET
                            00000000G  EF            5C    D0 00006        MOVL     OFFSET,QTAB_OFFSET                         ; 4260
                                 83FC  CF            00    FB 0000D        CALLS    #0,PRE_PROCESS                             ; 4262
```

```
                                       00V            50   E9 00012          BLBC    R0,4$
                                  00V  AF              00   FB 00015 2$:     CALLS   #0,THE_QUESTION                             ; 4271
                         F4 00000000G  EF              00   E0 00019         BBS     #0,SYS$INPUT_ERROR,2$
                                           00000000G  EF   9F 00021          PUSHAB  INPUT_DESC                                  ; 4275
                            00000000G  EF             01   FB 00027          CALLS   #1,STR$FREE1_DX
                                 9EF1  CF             00   FB 0002E 4$:     CALLS   #0,POST_PROCESS                             ; 4282
                                       00V            50   E9 00033          BLBC    R0,6$
                                       50  00000000G  EF   D0 00036          MOVL    QTAB_OFFSET,R0                              ; 4284
                            FFFFFFF5GEF40             01   90 0003D          MOVB    #1,VDATA-11[R0]
                                       50  00000000G  EF   90 00045 6$:     MOVB    QUERY_FLAG,QUERY                            ; 4289
                                                           04 0004C          RET                                                 ; 4291

; Routine Size: 77 bytes,    Routine Base: $CODE + 0A3DD

                                                              00000 THE_QUESTION:                                               ; 4018
                                                         000C 00000          .WORD   ^M<R2,R3>
                                       5E             10   C2 00002          SUBL2   #16,SP
                                                  F8  AD   D4 00005          CLRL    -8(FP)
                                       6D  00000000G  EF   9E 00008          MOVAB   PAS$HANDLER,(FP)
                                       29  00000000G  EF   D1 0000F          CMPL    QTAB_OFFSET,#41                             ; 4025
                                                      00V  12 00016          BNEQ    2$
                            00000000G  EF             01   90 00018          MOVB    #1,MAIN_LEVEL                               ; 4029
                                           00000000G  EF   94 0001F          CLRB    MAIN_CTRLZ                                  ; 4030
                                           00000000G  EF   94 00025          CLRB    CONTROL_ZEE_TYPED                           ; 4031
                                           00000000G  EF   94 0002B 2$:     CLRB    SYS$INPUT_ERROR                             ; 4038
                                   F8  AD  00000000G  EF   9E 00031          MOVAB   SYS$INPUT_COND_HANDLER,FP-8                 ; 4039
                         00V00000000G  EF             00   E0 00039          BBS     #0,AUTO_TUNE,6$                             ; 4041
                         00V00000000G  EF             00   E1 00041          BBC     #0,TEMP_FULL_PROMPT,5$                      ; 4045
                                 3E9F  CF             00   FB 00049          CALLS   #0,WRITE_HELP                               ; 4047
                                 49C2  CF             00   FB 0004E 5$:     CALLS   #0,WRITE_QUESTION                           ; 4049
                         5C 00000000G  EF             19   C5 00053 6$:     MULL3   #25,QTAB_OFFSET,R12                         ; 4053
            50 FFFFFEEDGEF4C           20             00   EE 0005B          EXTV    #0,#32,QTAB-275[R12],R0
                          06           00             50   CF 00065          CASEL   R0,#0,#6
                                                   0000V      00069          .DISPL  7$
                                                   0000V      0006B          .DISPL  26$
                                                   0000V      0006D          .DISPL  46$
                                                   0000V      0006F          .DISPL  26$
                                                   0000V      00071          .DISPL  46$
                                                   0000V      00073          .DISPL  47$
                                                   0000V      00075          .DISPL  56$
                                                   0000V   31 00077          BRW     57$
                                       50  00000000G  EF   D0 0007A 7$:     MOVL    QTAB_OFFSET,R0                              ; 4059
                            FFFFFFB0GEF40  00000000G  EF   7D 00081          MOVQ    NULL_STRING,SDATA-80[R0]
                         00V00000000G  EF             00   E1 0008D          BBC     #0,TAKE_DEFAULTS,9$                         ; 4061
                                           00000104G  EF   D5 00095          TSTL    IDATA+260
                                                      00V  13 0009B          BEQL    10$
                         00V00000000G  EF             00   E1 0009D 9$:     BBC     #0,AUTO_TUNE,13$
                         03 00000000G  EF             00   E1 000A5 10$:    BBC     #0,AUTO_TUNE,.+3                            ; 4073
                                                   0000V   31 000AD          BRW     18$
                                            33334033  8F   DF 000B0          PUSHAF  #^F0.7                                      ; 4075
                            00000000G  EF             01   FB 000B6          CALLS   #1,LIB$WAIT
                                                   0000V   31 000BD          BRW     18$
                         00V00000000G  EF             30   E0 000C0 13$:    BBS     #48,PAS$FV_INPUT,14$                        ; 4083
                                           00000000G  EF   9F 000C8          PUSHAB  PAS$FV_INPUT
                            00000000G  EF             01   FB 000CE          CALLS   #1,PAS$LOOK_AHEAD
                         00V00000000G  EF             31   E0 000D5 14$:    BBS     #49,PAS$FV_INPUT,16$
                                           00000000G  EF   9F 000DD          PUSHAB  PAS$FV_INPUT                                ; 4087
```

```
        00000000G  EF               01    FB 000E3         CALLS    #1,PAS$RESET2
                                    00    DD 000EA         PUSHL    #0                                       ; 4088
                                    00    DD 000EC         PUSHL    #0
                                    00    DD 000EE         PUSHL    #0
                       00B3804B     8F    DD 000F0         PUSHL    #11763787
        00000000G  EF               04    FB 000F6         CALLS    #4,LIB$SIGNAL
                       000000FF     8F    DD 000FD 16$:    PUSHL    #255                                     ; 4092
                       00000000G    EF    9F 00103         PUSHAB   PAS$FV_INPUT
                       00000000G    EF    9F 00109         PUSHAB   TEMP_STRING255
        00000000G  EF               03    FB 0010F         CALLS    #3,PAS$READ_STRING
                       00000000G    EF    9F 00116         PUSHAB   PAS$FV_INPUT
        00000000G  EF               01    FB 0011C         CALLS    #1,PAS$READLN2
               F0  AD  010E00FF     8F    D0 00123         MOVL     #17694975,-16(FP)                        ; 4093
               F4  AD  00000000G    EF    9E 0012B         MOVAB    TEMP_STRING255,-12(FP)
                                 F0 AD    9F 00133         PUSHAB   -16(FP)
                   50  00000000G    EF    D0 00136         MOVL     QTAB_OFFSET,R0
                       FFFFFFB0GEF40      7F 0013D         PUSHAQ   SDATA-80[R0]
        00000000G  EF               02    FB 00144         CALLS    #2,STR$TRIM
                       00000000G    EF    9F 0014B         PUSHAB   INPUT_DESC                               ; 4094
                   50  00000000G    EF    D0 00151         MOVL     QTAB_OFFSET,R0
                       FFFFFFB0GEF40      7F 00158         PUSHAQ   SDATA-80[R0]
        00000000G  EF               02    FB 0015F         CALLS    #2,LIB$SCOPY_DXDX
        00000014G  EF  00000004G    EF    D0 00166         MOVL     INPUT_DESC+4,PARAM_BLOCK+20              ; 4095
        00000010G  EF  00000000G    EF    3C 00171         MOVZWL   INPUT_DESC,PARAM_BLOCK+16                ; 4096
      00V00000000G EF               00    E0 0017C 18$:    BBS      #0,AUTO_TUNE,20$                         ; 4100
                       00000000G    EF    9F 00184         PUSHAB   CRLF                                     ; 4102
                                    02    DD 0018A         PUSHL    #2
                       00000000G    EF    9F 0018C         PUSHAB   PAS$FV_OUTPUT
        00000000G  EF               03    FB 00192         CALLS    #3,PAS$WRITE_STRING
                       00000000G    EF    9F 00199         PUSHAB   PAS$FV_OUTPUT
        00000000G  EF               01    FB 0019F         CALLS    #1,PAS$WRITELN2
     03 00000000G  EF               00    E0 001A6 20$:    BBS      #0,JOURNAL_ENABLED,.+3                   ; 4108
                                 0000V    31 001AE         BRW      58$
                   50  00000000G    EF    D0 001B1         MOVL     QTAB_OFFSET,R0                           ; 4110
                   50  FFFFFFB0GEF40      7E 001B8         MOVAQ    SDATA-80[R0],R0
                                    60    B5 001C0         TSTW     (R0)
                                   00V    1B 001C2         BLEQU    23$
               7E                   60    3C 001C4         MOVZWL   (R0),-(SP)                               ; 4112
                                    00    DD 001C7         PUSHL    #0
                   51  00000000G    EF    D0 001C9         MOVL     QTAB_OFFSET,R1
                   51  FFFFFFB4GEF41      7E 001D0         MOVAQ    SDATA-76[R1],R1
                             00     B1    9F 001D8         PUSHAB   @0(R1)
                       000000FF     8F    DD 001DB         PUSHL    #255
                       00000000G    EF    9F 001E1         PUSHAB   JOURNAL_FILE
        00000000G  EF               05    FB 001E7         CALLS    #5,PAS$WRITE_STRING
                       00000000G    EF    9F 001EE         PUSHAB   JOURNAL_FILE
        00000000G  EF               01    FB 001F4         CALLS    #1,PAS$WRITELN2
                                 0000V    31 001FB         BRW      58$
                       00000000G    EF    9F 001FE 23$:    PUSHAB   JOURNAL_FILE                             ; 4120
        00000000G  EF               01    FB 00204         CALLS    #1,PAS$WRITELN2
                                 0000V    31 0020B         BRW      58$
                       FFFFFEF2GEF4C      9F 0020E 26$:    PUSHAB   QTAB-270[R12]                            ; 4129
                       FFFFFEF1GEF4C      9F 00215         PUSHAB   QTAB-271[R12]
                   50  00000000G    EF    D0 0021C         MOVL     QTAB_OFFSET,R0
                       00000000GEF40      DF 00223         PUSHAL   IDATA[R0]
        00000000G  EF               03    FB 0022A         CALLS    #3,NUMBER_INPUT
                                    50    94 00231         CLRB     R0                                       ; 4138
```

```
                            51 00000000G EF   D0 00233         MOVL    QTAB_OFFSET,R1
                            51 00000000GEF41  D0 0023A         MOVL    IDATA[R1],R1
                                         00V  13 00242         BEQL    28$
                                         50   96 00244         INCB    R0
                                         52   94 00246 28$:    CLRB    R2
                            39 00000000G EF   D1 00248         CMPL    QTAB_OFFSET,#57
                                         00V  12 0024F         BNEQ    31$
                            03 00000108G EF   D1 00251         CMPL    IDATA+264,#3
                                         00V  13 00258         BEQL    31$
                                         52   96 0025A         INCB    R2
                            52           50   8A 0025C 31$:    BICB2   R0,R2
                                         50   94 0025F         CLRB    R0
              00V00000013G  EF           00   E1 00261         BBC     #0,BDATA+19,36$
                               00000000G EF   D5 00269         TSTL    SEGMENT_NUMBER
                                         00V  13 0026F         BEQL    36$
                            36 00000000G EF   D1 00271         CMPL    QTAB_OFFSET,#54
                                         00V  12 00278         BNEQ    36$
                                         51   D5 0027A         TSTL    R1
                                         00V  12 0027C         BNEQ    36$
                                         50   96 0027E         INCB    R0
                            50           52   88 00280 36$:    BISB2   R2,R0
                            00V          50   E8 00283         BLBS    R0,45$
                                         50   94 00286         CLRB    R0                                      ; 4168
              52 00000000G  EF           19   C5 00288         MULL3   #25,QTAB OFFSET,R2
51 FFFFFEF6GEF42             20           00   EC 00290         CMPV    #0,#32,QTAB-266[R2],R1
                                         00V  15 0029A         BLEQ    40$
                                         50   96 0029C         INCB    R0
                                         53   94 0029E 40$:    CLRB    R3
51 FFFFFEFAGEF42             20           00   EC 002A0         CMPV    #0,#32,QTAB-262[R2],R1
                                         00V  18 002AA         BGEQ    42$
                                         53   96 002AC         INCB    R3
                            53           50   88 002AE 42$:    BISB2   R0,R3
                            00V          53   E9 002B1         BLBC    R3,45$
                                         00   DD 002B4         PUSHL   #0                                      ; 4174
                                         00   DD 002B6         PUSHL   #0
                                         00   DD 002B8         PUSHL   #0
                               00B38038  8F   DD 002BA         PUSHL   #11763768
                 00000000G  EF           04   FB 002C0         CALLS   #4,LIB$SIGNAL
                                       0000V  31 002C7 45$:    BRW     58$
                               FFFFFEF2GEF4C  9F 002CA 46$:    PUSHAB  QTAB-270[R12]                           ; 4185
                               FFFFFEF1GEF4C  9F 002D1         PUSHAB  QTAB-271[R12]
                               FFFFFF02GEF4C  9F 002D8         PUSHAB  QTAB-254[R12]
                               FFFFFEFEGEF4C  9F 002DF         PUSHAB  QTAB-258[R12]
                 00000000G  EF           04   FB 002E6         CALLS   #4,PARSE_INPUT
                                         00V  11 002ED         BRB     58$
              00V00000000G  EF           00   E0 002EF 47$:    BBS     #0,AUTO TUNE,58$                        ; 4200
              00V00000000G  EF           30   E0 002F7         BBS     #48,PAS$FV INPUT,50$                    ; 4212
                               00000000G EF   9F 002FF         PUSHAB  PAS$FV INPUT
                 00000000G  EF           01   FB 00305         CALLS   #1,PAS$LOOK AHEAD
              00V00000000G  EF           31   E0 0030C 50$:    BBS     #49,PAS$FV INPUT,52$
                               00000000G EF   9F 00314         PUSHAB  PAS$FV INPUT                            ; 4216
                 00000000G  EF           01   FB 0031A         CALLS   #1,PAS$RESET2
                                         00   DD 00321         PUSHL   #0                                      ; 4217
                                         00   DD 00323         PUSHL   #0
                                         00   DD 00325         PUSHL   #0
                               00B3804B  8F   DD 00327         PUSHL   #11763787
                 00000000G  EF           04   FB 0032D         CALLS   #4,LIB$SIGNAL
```

```
                             00000000G  EF    9F 00334 52$:     PUSHAB  PAS$FV_INPUT                                    ; 4221
               00000000G  EF            01    FB 0033A          CALLS   #1,PAS$READLN2
             00V00000000G EF            00    E1 00341          BBC     #0,JOURNAL_ENABLED,58$                          ; 4223
                             00000000G  EF    9F 00349          PUSHAB  JOURNAL_FILE                                    ; 4225
               00000000G  EF            01    FB 0034F          CALLS   #1,PAS$WRITELN2
                                        00V   11 00356          BRB     58$
                                        00V   11 00358 56$:     BRB     58$
                                                 0035A 57$:
                    9A22  CF            00    FB 0035A 58$:     CALLS   #0,VERIFY_PROCESS                               ; 4244
                          00V           50    E8 0035F          BLBS    R0,60$
                                        00    DD 00362          PUSHL   #0                                              ; 4246
                                        00    DD 00364          PUSHL   #0
                                        00    DD 00366          PUSHL   #0
                             00B38038   8F    DD 00368          PUSHL   #11763768
               00000000G  EF            04    FB 0036E          CALLS   #4,LIB$SIGNAL
                             00000000G  EF    94 00375 60$:     CLRB    TEMP_FULL_PROMPT                                ; 4251
                                              04 0037B          RET                                                     ; 4253

; Routine Size: 892 bytes,    Routine Base: $CODE + 0A42A

                                                 00000 ASK_KEY_DUPS:                                                    ; 4340
                                            0000 00000          .WORD   ^M<>
                             0000001E   8F    DF 00002          PUSHAL  #30                                             ; 4344
                    A3DD  CF            01    FB 00008          CALLS   #1,QUERY
                          00V           50    E9 0000D          BLBC    R0,3$
                             0000003B   8F    DF 00010          PUSHAL  #59                                             ; 4346
                    A3DD  CF            01    FB 00016          CALLS   #1,QUERY
                                        00V   11 0001B          BRB     4$
                             000000ECG  EF    D4 0001D 3$:      CLRL    IDATA+236                                       ; 4350
                                              04 00023 4$:      RET                                                     ; 4352

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7A6

                                                 00000 ASK_GLOBAL_WANTED:                                               ; 4401
                                            0000 00000          .WORD   ^M<>
                             0000001B   8F    DF 00002          PUSHAL  #27                                             ; 4408
                    A3DD  CF            01    FB 00008          CALLS   #1,QUERY
                          00V           50    E9 0000D          BLBC    R0,3$
                             0000002E   8F    DF 00010          PUSHAL  #46                                             ; 4410
                    A3DD  CF            01    FB 00016          CALLS   #1,QUERY
                                        00V   11 0001B          BRB     4$
                             000000B8G  EF    D4 0001D 3$:      CLRL    IDATA+184                                       ; 4414
                                              04 00023 4$:      RET                                                     ; 4416

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7CA

                                                 00000 ASK_KEY_COMP:                                                    ; 4465
                                            0000 00000          .WORD   ^M<>
                             00000013   8F    DF 00002          PUSHAL  #19                                             ; 4472
                    A3DD  CF            01    FB 00008          CALLS   #1,QUERY
                          00V           50    E9 0000D          BLBC    R0,3$
                             00000010   8F    DF 00010          PUSHAL  #16                                             ; 4474
                    A3DD  CF            01    FB 00016          CALLS   #1,QUERY
                                        00V   11 0001B          BRB     4$
                             00000020G  EF    D4 0001D 3$:      CLRF    RDATA+32                                        ; 4478
                                              04 00023 4$:      RET                                                     ; 4480
```

```
; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7EE

                                          00000 ASK_REC_COMP:                                              ; 4529
                                     0000 00000         .WORD   ^M<>
                       00000014   8F   DF 00002         PUSHAL  #20                                        ; 4536
              A3DD   CF           01   FB 00008         CALLS   #1,QUERY
                     00V          50   E9 0000D         BLBC    R0,3$
                       00000011   8F   DF 00010         PUSHAL  #17                                        ; 4538
              A3DD   CF           01   FB 00016         CALLS   #1,QUERY
                                  00V  11 0001B         BRB     4$
                       00000024G  EF   D4 0001D 3$:     CLRF    RDATA+36                                   ; 4542
                                       04 00023 4$:     RET                                                ; 4544

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A812

                                          00000 ASK_IDX_COMP:                                              ; 4593
                                     0000 00000         .WORD   ^M<>
                       00000015   8F   DF 00002         PUSHAL  #21                                        ; 4600
              A3DD   CF           01   FB 00008         CALLS   #1,QUERY
                     00V          50   E9 0000D         BLBC    R0,3$
                       00000012   8F   DF 00010         PUSHAL  #18                                        ; 4602
              A3DD   CF           01   FB 00016         CALLS   #1,QUERY
                                  00V  11 0001B         BRB     4$
                       00000028G  EF   D4 0001D 3$:     CLRF    RDATA+40                                   ; 4606
                                       04 00023 4$:     RET                                                ; 4608

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A836

                                          00000 ASK_MEAN_RECORD_SIZE:                                      ; 4655
                                     0000 00000         .WORD   ^M<>
      00V00000000G   EF                00  E1 00002         BBC     #0,ISAM_ORG,4$                         ; 4663
      00V00000000G   EF                00  E1 0000A         BBC     #0,ISAM_ORG,3$
                       00000084G  EF   D5 00012         TSTL    IDATA+132
                                  00V  13 00018         BEQL    4$
      00V0000002FG   EF                00  E0 0001A 3$:     BBS     #0,VDATA+47,13$
                       0000003A   8F   DF 00022 4$:     PUSHAL  #58                                        ; 4676
              A3DD   CF           01   FB 00028         CALLS   #1,QUERY
                     0F 00000100G EF   D1 0002D         CMPL    IDATA+256,#15                              ; 4685
                                  00V  12 00034         BNEQ    8$
                       00000028   8F   DF 00036         PUSHAL  #40                                        ; 4687
              A3DD   CF           01   FB 0003C         CALLS   #1,QUERY
      00V00000000G   EF                00  E1 00041 8$:     BBC     #0,VARIABLE_RECORDS,11$                ; 4689
                       00000039   8F   DF 00049         PUSHAL  #57                                        ; 4691
              A3DD   CF           01   FB 0004F         CALLS   #1,QUERY
                                  00V  11 00054         BRB     13$
         000000E4G   EF 000000E8G EF   D0 00056 11$:    MOVL    IDATA+232,IDATA+228                        ; 4695
                                       04 00061 13$:    RET                                                ; 4699

; Routine Size: 98 bytes,    Routine Base: $CODE + 0A85A

                                          00000 ASK_KEY_SIZE:                                              ; 4747
                                     0000 00000         .WORD   ^M<>
      00V00000013G   EF                00  E1 00002         BBC     #0,BDATA+19,10$                        ; 4754
                       00000000G  EF   D4 0000A         CLRL    SEGMENT_NUMBER                             ; 4758
                       00000036   8F   DF 00010 2$:     PUSHAL  #54                                        ; 4762
              A3DD   CF           01   FB 00016         CALLS   #1,QUERY
                       00000000G  EF   D6 0001B         INCL    SEGMENT_NUMBER                             ; 4764
```

```
                000000D8G EF   D5 00021         TSTL     IDATA+216
                          00V  13 00027         BEQL     5$
             07 00000000G EF   D1 00029         CMPL     SEGMENT_NUMBER,#7
                          DE   15 00030         BLEQ     2$
                000000D8G EF   D5 00032 5$:     TSTL     IDATA+216                              ; 4768
                          00V  12 00038         BNEQ     9$
             50 00000000G EF   D0 0003A         MOVL     SEGMENT_NUMBER,R0                      ; 4772
             07           50   D1 00041         CMPL     R0,#7
                          00V  14 00044         BGTR     9$
             51           50   D0 00046 7$:     MOVL     R0,I
                00000000GEF41  94 00049         CLRB     SEGMENT_WANTED[I]                      ; 4774
F2           50           07   F3 00050         AOBLEQ   #7,R0,7$
   000000D8G EF 00000000G EF   D0 00054 9$:     MOVL     SEGMENT_LENGTH,IDATA+216               ; 4778
                          00V  11 0005F         BRB      12$
                 00000036 8F   DF 00061 10$:    PUSHAL   #54                                    ; 4784
        A3DD CF           01   FB 00067         CALLS    #1,QUERY
                               04 0006C 12$:    RET                                             ; 4786

; Routine Size: 109 bytes,    Routine Base: $CODE + 0A8BC

                                  00000 ASK_KEY_POSITION:                                       ; 4834
                             0000 00000         .WORD    ^M<>
00V00000013G EF           00   E1 00002         BBC      #0,BDATA+19,6$                         ; 4838
                          5C   D4 0000A         CLRL     R12                                    ; 4842
   00000000G EF           5C   D0 0000C 2$:     MOVL     R12,SEGMENT_NUMBER
             50 00000000G EF   D0 00013         MOVL     SEGMENT_NUMBER,R0                      ; 4846
00V00000000GEF40          00   E1 0001A         BBC      #0,SEGMENT_WANTED[R0],5$
                 00000033 8F   DF 00023         PUSHAL   #51                                    ; 4848
        A3DD CF           01   FB 00029         CALLS    #1,QUERY
DA           5C           07   F3 0002E 5$:     AOBLEQ   #7,R12,2$
   000000CCG EF 00000000G EF   D0 00032         MOVL     SEGMENT_POSITION,IDATA+204             ; 4852
                          00V  11 0003D         BRB      8$
                 00000033 8F   DF 0003F 6$:     PUSHAL   #51                                    ; 4858
        A3DD CF           01   FB 00045         CALLS    #1,QUERY
                               04 0004A 8$:     RET                                             ; 4860

; Routine Size: 75 bytes,    Routine Base: $CODE + 0A929

                                  00000 ASK_TEST_SECONDARY:                                     ; 4909
                             0000 00000         .WORD    ^M<>
         00V AF           00   FB 00002 1$:     CALLS    #0,THE_QUESTION                        ; 6003
F4 00000000G EF           00   E0 00006         BBS      #0,SYS$INPUT_ERROR,1$
                00000000G EF   9F 0000E         PUSHAB   INPUT_DESC                             ; 6007
   00000000G EF           01   FB 00014         CALLS    #1,STR$FREE1_DX
                               04 0001B         RET                                             ; 6009

; Routine Size: 28 bytes,    Routine Base: $CODE + 0A974

                                  00000 THE_QUESTION:                                           ; 4911
                             0000 00000         .WORD    ^M<>
             5E           10   C2 00002         SUBL2    #16,SP
                       F8 AD   D4 00005         CLRL     -8(FP)
             6D 00000000G EF   9E 00008         MOVAB    PAS$HANDLER,(FP)
                00000000G EF   D4 0000F         CLRL     EDF$GL_SECNUM                          ; 4918
                00000000G EF   94 00015         CLRB     SYS$INPUT_ERROR                        ; 4919
          F8 AD 00000000G EF   9E 0001B         MOVAB    SYS$INPUT_COND_HANDLER,FP-8            ; 4920
             50 00000000G EF   9A 00023         MOVZBL   ACTIVE_PRIMARY,R0                      ; 4922
```

```
 0E             01                 50  8F 0002A        CASEB   R0,#1,#14
                                0000V     0002E        .DISPL  3$
                                001E      00030        .DISPL  30
                                0000V     00032        .DISPL  15$
                                0000V     00034        .DISPL  16$
                                0000V     00036        .DISPL  17$
                                0000V     00038        .DISPL  29$
                                0000V     0003A        .DISPL  41$
                                0000V     0003C        .DISPL  53$
                                0000V     0003E        .DISPL  1$
                                0000V     00040        .DISPL  65$
                                0000V     00042        .DISPL  77$
                                0000V     00044        .DISPL  89$
                                0000V     00046        .DISPL  101$
                                0000V     00048        .DISPL  113$
                                0000V     0004A        .DISPL  2$
                                0000V  31 0004C        BRW     125$
                     000000000G    EF  D4 0004F  1$:   CLRL    INPUT_VALUE                              ; 4926
                                0000V  31 00055        BRW     126$
                     000000000G    EF  D4 00058  2$:   CLRL    INPUT_VALUE                              ; 4930
                                0000V  31 0005E        BRW     126$
 03 000000000G  EF                 00  E0 00061  3$:   BBS     #0,FULL_CHOICE,.+3                       ; 4936
                                0000V  31 00069        BRW     9$
                     00000000      8F  DF 0006C        PUSHAL  #0                                       ; 4940
    000000000G  EF                 01  FB 00072        CALLS   #1,CLEAR
00V000000000G   EF                 00  E0 00079        BBS     #0,FULL_PROMPT,6$                        ; 4942
 03 000000000G  EF                 00  E0 00081        BBS     #0,TEMP_FULL_PROMPT,.+3
                                0000V  31 00089        BRW     7$
                     000000000G    EF  9F 0008C  6$:   PUSHAB  SHIFT                                    ; 4946
                                   04  DD 00092        PUSHL   #4
                     000000000G    EF  9F 00094        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 0009A        CALLS   #3,PAS$WRITE_STRING
                     FFFF8365      EF  9F 000A1        PUSHAB  C.A0E
                                   02  DD 000A7        PUSHL   #2
                     000000000G    EF  9F 000A9        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 000AF        CALLS   #3,PAS$WRITE_STRING
                     000000000G    EF  9F 000B6        PUSHAB  ANSI_REVERSE
                                   04  DD 000BC        PUSHL   #4
                     000000000G    EF  9F 000BE        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 000C4        CALLS   #3,PAS$WRITE_STRING
                     FFFF833F      EF  9F 000CB        PUSHAB  C.A0F
                                   0D  DD 000D1        PUSHL   #13
                     000000000G    EF  9F 000D3        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 000D9        CALLS   #3,PAS$WRITE_STRING
                     000000000G    EF  9F 000E0        PUSHAB  SEC_ATTR
                                   16  DD 000E6        PUSHL   #22
                     000000000G    EF  9F 000E8        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 000EE        CALLS   #3,PAS$WRITE_STRING
                     000000000G    EF  9F 000F5        PUSHAB  ANSI_RESET
                                   04  DD 000FB        PUSHL   #4
                     000000000G    EF  9F 000FD        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 00103        CALLS   #3,PAS$WRITE_STRING
                     000000000G    EF  9F 0010A        PUSHAB  CRLF
                                   02  DD 00110        PUSHL   #2
                     000000000G    EF  9F 00112        PUSHAB  PAS$FV_OUTPUT
    000000000G  EF                 03  FB 00118        CALLS   #3,PAS$WRITE_STRING
                     000000000G    EF  9F 0011F        PUSHAB  CRLF_SHIFT
```

```
                             06   DD 00125        PUSHL   #6
                 00000000G   EF   9F 00127        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 0012D        CALLS   #3,PAS$WRITE_STRING
                 FFFF82E6    EF   9F 00134        PUSHAB  C.A0G
                             10   DD 0013A        PUSHL   #16
                 00000000G   EF   9F 0013C        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00142        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 00149        PUSHAB  CRLF_SHIFT
                             06   DD 0014F        PUSHL   #6
                 00000000G   EF   9F 00151        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00157        CALLS   #3,PAS$WRITE_STRING
                 FFFF82CC    EF   9F 0015E        PUSHAB  C.A0H
                             0F   DD 00164        PUSHL   #15
                 00000000G   EF   9F 00166        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 0016C        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 00173        PUSHAB  CRLF_SHIFT
                             06   DD 00179        PUSHL   #6
                 00000000G   EF   9F 0017B        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00181        CALLS   #3,PAS$WRITE_STRING
                 FFFF82B2    EF   9F 00188        PUSHAB  C.A0I
                             0C   DD 0018E        PUSHL   #12
                 00000000G   EF   9F 00190        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00196        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 0019D        PUSHAB  CRLF_SHIFT
                             06   DD 001A3        PUSHL   #6
                 00000000G   EF   9F 001A5        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 001AB        CALLS   #3,PAS$WRITE_STRING
                 FFFF8294    EF   9F 001B2        PUSHAB  C.A0J
                             0C   DD 001B8        PUSHL   #12
                 00000000G   EF   9F 001BA        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 001C0        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 001C7        PUSHAB  CRLF_SHIFT
                             06   DD 001CD        PUSHL   #6
                 00000000G   EF   9F 001CF        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 001D5        CALLS   #3,PAS$WRITE_STRING
                 FFFF8276    EF   9F 001DC        PUSHAB  C.A0K
                             11   DD 001E2        PUSHL   #17
                 00000000G   EF   9F 001E4        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 001EA        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 001F1        PUSHAB  CRLF_SHIFT
                             06   DD 001F7        PUSHL   #6
                 00000000G   EF   9F 001F9        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 001FF        CALLS   #3,PAS$WRITE_STRING
                 FFFF8260    EF   9F 00206        PUSHAB  C.A0L
                             10   DD 0020C        PUSHL   #16
                 00000000G   EF   9F 0020E        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00214        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 0021B        PUSHAB  CRLF_SHIFT
                             06   DD 00221        PUSHL   #6
                 00000000G   EF   9F 00223        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00229        CALLS   #3,PAS$WRITE_STRING
                 FFFF8246    EF   9F 00230        PUSHAB  C.A0M
                             0F   DD 00236        PUSHL   #15
                 00000000G   EF   9F 00238        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 0023E        CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF   9F 00245        PUSHAB  CRLF
                             02   DD 0024B        PUSHL   #2
```

```
                                  00000000G  EF    9F 0024D          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 00253          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 0025A          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         01    FB 00260          CALLS   #1,PAS$WRITELN2
                                         0000V     31 00267          BRW     14$
                                  00000000G  EF    9F 0026A 7$:      PUSHAB  SHIFT                                          ; 4969
                                             04    DD 00270          PUSHL   #4
                                  00000000G  EF    9F 00272          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 00278          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 0027F          PUSHAB  QUES_HINT
                                             1F    DD 00285          PUSHL   #31
                                  00000000G  EF    9F 00287          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 0028D          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 00294          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         01    FB 0029A          CALLS   #1,PAS$WRITELN2
                                         0000V     31 002A1          BRW     14$
                                  00000000   8F    DF 002A4 9$:      PUSHAL  #0                                             ; 4977
                       00000000G  EF         01    FB 002AA          CALLS   #1,CLEAR
                    00V00000000G  EF         00    E0 002B1          BBS     #0,FULL_PROMPT,11$                             ; 4979
                    03 00000000G  EF         00    E0 002B9          BBS     #0,TEMP_FULL_PROMPT,.+3
                                         0000V     31 002C1          BRW     12$
                                  00000000G  EF    9F 002C4 11$:     PUSHAB  SHIFT                                          ; 4983
                                             04    DD 002CA          PUSHL   #4
                                  00000000G  EF    9F 002CC          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 002D2          CALLS   #3,PAS$WRITE_STRING
                                  FFFF81AD   EF    9F 002D9          PUSHAB  C.AON
                                             02    DD 002DF          PUSHL   #2
                                  00000000G  EF    9F 002E1          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 002E7          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 002EE          PUSHAB  ANSI_REVERSE
                                             04    DD 002F4          PUSHL   #4
                                  00000000G  EF    9F 002F6          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 002FC          CALLS   #3,PAS$WRITE_STRING
                                  FFFF8187   EF    9F 00303          PUSHAB  C.AOO
                                             0F    DD 00309          PUSHL   #15
                                  00000000G  EF    9F 0030B          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 00311          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 00318          PUSHAB  SEC_ATTR
                                             16    DD 0031E          PUSHL   #22
                                  00000000G  EF    9F 00320          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 00326          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 0032D          PUSHAB  ANSI_RESET
                                             04    DD 00333          PUSHL   #4
                                  00000000G  EF    9F 00335          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 0033B          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 00342          PUSHAB  CRLF
                                             02    DD 00348          PUSHL   #2
                                  00000000G  EF    9F 0034A          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         03    FB 00350          CALLS   #3,PAS$WRITE_STRING
                                  00000000G  EF    9F 00357          PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF         01    FB 0035D          CALLS   #1,PAS$WRITELN2
                                  000000FC   8F    DD 00364          PUSHL   #252                                           ; 4990
                                             07    DD 0036A          PUSHL   #7
                                             04    DD 0036C          PUSHL   #4
                                  00000000G  EF    9F 0036E          PUSHAB  SYS$OUTPUT_NAME
                                             0B    DD 00374          PUSHL   #11
                                             01    DD 00376          PUSHL   #1
```

```
                  00000000G    EF  9F 00378         PUSHAB  FDL_DEST
   00000000G  EF               07  FB 0037E         CALLS   #7,PAS$OPEN2
                  00000000G    EF  9F 00385         PUSHAB  FDL_DEST                                ; 4992
   00000000G  EF               01  FB 0038B         CALLS   #1,PAS$REWRITE2
                  00000000G    EF  9F 00392         PUSHAB  TEST                                    ; 4994
   00000000G  EF               01  FB 00398         CALLS   #1,SHOW_PRIMARY_SECTION
                  00000000G    EF  9F 0039F         PUSHAB  FDL_DEST                                ; 4996
   00000000G  EF               01  FB 003A5         CALLS   #1,PAS$CLOSE2
                                00V  11 003AC         BRB     14$
                  00000000G    EF  9F 003AE 12$:    PUSHAB  SHIFT                                   ; 5002
                               04  DD 003B4         PUSHL   #4
                  00000000G    EF  9F 003B6         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 003BC         CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 003C3         PUSHAB  QUES_HINT
                               1F  DD 003C9         PUSHL   #31
                  00000000G    EF  9F 003CB         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 003D1         CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 003D8         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               01  FB 003DE         CALLS   #1,PAS$WRITELN2
                  00000000G    EF  9F 003E5 14$:    PUSHAB  SHIFT                                   ; 5006
                               04  DD 003EB         PUSHL   #4
                  00000000G    EF  9F 003ED         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 003F3         CALLS   #3,PAS$WRITE_STRING
                   FFFF80A0    EF  9F 003FA         PUSHAB  C.AOP
                               21  DD 00400         PUSHL   #33
                  00000000G    EF  9F 00402         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00408         CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 0040F         PUSHAB  ANSI_REVERSE
                               04  DD 00415         PUSHL   #4
                  00000000G    EF  9F 00417         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0041D         CALLS   #3,PAS$WRITE_STRING
                   FFFF809A    EF  9F 00424         PUSHAB  C.AOQ
                               03  DD 0042A         PUSHL   #3
                  00000000G    EF  9F 0042C         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00432         CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 00439         PUSHAB  ANSI_RESET
                               04  DD 0043F         PUSHL   #4
                  00000000G    EF  9F 00441         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00447         CALLS   #3,PAS$WRITE_STRING
                   FFFF8074    EF  9F 0044E         PUSHAB  C.AOR
                               03  DD 00454         PUSHL   #3
                  00000000G    EF  9F 00456         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0045C         CALLS   #3,PAS$WRITE_STRING
                   00000000    8F  DF 00463         PUSHAL  #0                                      ; 5008
                         00    8F  9F 00469         PUSHAB  #0
          F4  AD  00000000G    EF  9E 0046C         MOVAB   EDF$AB_ACCESS_TABLE_STA,-12(FP)
                         F4    AD  9F 00474         PUSHAB  -12(FP)
          F0  AD  00000000G    EF  9E 00477         MOVAB   EDF$AB_ACCESS_TABLE_KEY,-16(FP)
                         F0    AD  9F 0047F         PUSHAB  -16(FP)
   00000000G  EF               04  FB 00482         CALLS   #4,PARSE_INPUT
                            0000V  31 00489         BRW     126$
                  00000000G    EF  D4 0048C 15$:    CLRL    INPUT_VALUE                             ; 5099
                            0000V  31 00492         BRW     126$
                  00000000G    EF  D4 00495 16$:    CLRL    INPUT_VALUE                             ; 5103
                            0000V  31 0049B         BRW     126$
03 00000000G  EF               00  E0 0049E 17$:    BBS     #0,FULL_CHOICE,.+3                      ; 5109
                            0000V  31 004A6         BRW     23$
                  00000000    8F   DF 004A9        PUSHAL  #0                                          ; 5113
   00000000G  EF                01   FB 004AF        CALLS   #1,CLEAR
00V00000000G  EF                00   E0 004B6        BBS     #0,FULL_PROMPT,20$                          ; 5115
03 00000000G  EF                00   E0 004BE        BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 004C6        BRW     21$
                  00000000G   EF   9F 004C9  20$:  PUSHAB  SHIFT                                       ; 5119
                                04   DD 004CF        PUSHL   #4
                  00000000G   EF   9F 004D1        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 004D7        CALLS   #3,PAS$WRITE_STRING
                  FFFF7FE8    EF   9F 004DE        PUSHAB  C.AOS
                                02   DD 004E4        PUSHL   #2
                  00000000G   EF   9F 004E6        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 004EC        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 004F3        PUSHAB  ANSI_REVERSE
                                04   DD 004F9        PUSHL   #4
                  00000000G   EF   9F 004FB        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00501        CALLS   #3,PAS$WRITE_STRING
                  FFFF7FC2    EF   9F 00508        PUSHAB  C.AOT
                                0C   DD 0050E        PUSHL   #12
                  00000000G   EF   9F 00510        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00516        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 0051D        PUSHAB  ACTIVE_AREA
   00000000G  EF                01   FB 00523        CALLS   #1,NUM_LEN
                                50   DD 0052A        PUSHL   R0
                  00000000G   EF   DD 0052C        PUSHL   ACTIVE_AREA
                  00000000G   EF   9F 00532        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00538        CALLS   #3,PAS$WRITE_INTEGER
                  00000000G   EF   9F 0053F        PUSHAB  SEC_ATTR
                                16   DD 00545        PUSHL   #22
                  00000000G   EF   9F 00547        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 0054D        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00554        PUSHAB  ANSI_RESET
                                04   DD 0055A        PUSHL   #4
                  00000000G   EF   9F 0055C        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00562        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00569        PUSHAB  CRLF
                                02   DD 0056F        PUSHL   #2
                  00000000G   EF   9F 00571        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00577        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 0057E        PUSHAB  CRLF_SHIFT
                                06   DD 00584        PUSHL   #6
                  00000000G   EF   9F 00586        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 0058C        CALLS   #3,PAS$WRITE_STRING
                  FFFF7F43    EF   9F 00593        PUSHAB  C.AOU
                                12   DD 00599        PUSHL   #18
                  00000000G   EF   9F 0059B        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 005A1        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 005A8        PUSHAB  CRLF_SHIFT
                                06   DD 005AE        PUSHL   #6
                  00000000G   EF   9F 005B0        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 005B6        CALLS   #3,PAS$WRITE_STRING
                  FFFF7F2D    EF   9F 005BD        PUSHAB  C.AOV
                                1A   DD 005C3        PUSHL   #26
                  00000000G   EF   9F 005C5        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 005CB        CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 005D2        PUSHAB  CRLF_SHIFT
                                06   DD 005D8        PUSHL   #6
```

```
                         000000000G  EF    9F  005DA          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  005E0          CALLS   #3,PAS$WRITE_STRING
                         FFFF7F1F    EF    9F  005E7          PUSHAB  C.AOW
                                     13    DD  005ED          PUSHL   #19
                         000000000G  EF    9F  005EF          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  005F5          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  005FC          PUSHAB  CRLF_SHIFT
                                     06    DD  00602          PUSHL   #6
                         000000000G  EF    9F  00604          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  0060A          CALLS   #3,PAS$WRITE_STRING
                         FFFF7F09    EF    9F  00611          PUSHAB  C.AOX
                                     12    DD  00617          PUSHL   #18
                         000000000G  EF    9F  00619          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  0061F          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  00626          PUSHAB  CRLF_SHIFT
                                     06    DD  0062C          PUSHL   #6
                         000000000G  EF    9F  0062E          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  00634          CALLS   #3,PAS$WRITE_STRING
                         FFFF7EF3    EF    9F  0063B          PUSHAB  C.AOY
                                     18    DD  00641          PUSHL   #24
                         000000000G  EF    9F  00643          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  00649          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  00650          PUSHAB  CRLF_SHIFT
                                     06    DD  00656          PUSHL   #6
                         000000000G  EF    9F  00658          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  0065E          CALLS   #3,PAS$WRITE_STRING
                         FFFF7EE1    EF    9F  00665          PUSHAB  C.AOZ
                                     11    DD  0066B          PUSHL   #17
                         000000000G  EF    9F  0066D          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  00673          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  0067A          PUSHAB  CRLF_SHIFT
                                     06    DD  00680          PUSHL   #6
                         000000000G  EF    9F  00682          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  00688          CALLS   #3,PAS$WRITE_STRING
                         FFFF7ECB    EF    9F  0068F          PUSHAB  C.APA
                                     1C    DD  00695          PUSHL   #28
                         000000000G  EF    9F  00697          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  0069D          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  006A4          PUSHAB  CRLF_SHIFT
                                     06    DD  006AA          PUSHL   #6
                         000000000G  EF    9F  006AC          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  006B2          CALLS   #3,PAS$WRITE_STRING
                         FFFF7EBD    EF    9F  006B9          PUSHAB  C.APB
                                     0F    DD  006BF          PUSHL   #15
                         000000000G  EF    9F  006C1          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  006C7          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  006CE          PUSHAB  CRLF
                                     02    DD  006D4          PUSHL   #2
                         000000000G  EF    9F  006D6          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  006DC          CALLS   #3,PAS$WRITE_STRING
                         000000000G  EF    9F  006E3          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             01    FB  006E9          CALLS   #1,PAS$WRITELN2
                                     00V   11  006F0          BRB     22$
                         000000000G  EF    9F  006F2  21$:    PUSHAB  SHIFT                                      ; 5145
                                     04    DD  006F8          PUSHL   #4
                         000000000G  EF    9F  006FA          PUSHAB  PAS$FV_OUTPUT
          000000000G  EF             03    FB  00700          CALLS   #3,PAS$WRITE_STRING
```

```
                  00000000G    EF  9F 00707          PUSHAB  QUES_HINT
                                  1F  DD 0070D          PUSHL   #31
                  00000000G    EF  9F 0070F          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 00715          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 0071C          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  01  FB 00722          CALLS   #1,PAS$WRITELN2
                            0000V  31 00729 22$:     BRW     28$
                  00000000     8F  DF 0072C 23$:     PUSHAL  #0                                ; 5153
   00000000G  EF                  01  FB 00732          CALLS   #1,CLEAR
00V00000000G  EF                  00  E0 00739          BBS     #0,FULL_PROMPT,25$                ; 5155
03 00000000G  EF                  00  E0 00741          BBS     #0,TEMP_FULL_PROMPT,.+3
                            0000V  31 00749          BRW     26$
                  00000000G    EF  9F 0074C 25$:     PUSHAB  SHIFT                             ; 5159
                                  04  DD 00752          PUSHL   #4
                  00000000G    EF  9F 00754          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 0075A          CALLS   #3,PAS$WRITE_STRING
                  FFFF7E25     EF  9F 00761          PUSHAB  C.APC
                                  02  DD 00767          PUSHL   #2
                  00000000G    EF  9F 00769          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 0076F          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 00776          PUSHAB  ANSI_REVERSE
                                  04  DD 0077C          PUSHL   #4
                  00000000G    EF  9F 0077E          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 00784          CALLS   #3,PAS$WRITE_STRING
                  FFFF7DFF     EF  9F 0078B          PUSHAB  C.APD
                                  0E  DD 00791          PUSHL   #14
                  00000000G    EF  9F 00793          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 00799          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 007A0          PUSHAB  ACTIVE_AREA
   00000000G  EF                  01  FB 007A6          CALLS   #1,NUM_LEN
                                  50  DD 007AD          PUSHL   R0
                  00000000G    EF  DD 007AF          PUSHL   ACTIVE_AREA
                  00000000G    EF  9F 007B5          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 007BB          CALLS   #3,PAS$WRITE_INTEGER
                  00000000G    EF  9F 007C2          PUSHAB  SEC_ATTR
                                  16  DD 007C8          PUSHL   #22
                  00000000G    EF  9F 007CA          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 007D0          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 007D7          PUSHAB  ANSI_RESET
                                  04  DD 007DD          PUSHL   #4
                  00000000G    EF  9F 007DF          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 007E5          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 007EC          PUSHAB  CRLF
                                  02  DD 007F2          PUSHL   #2
                  00000000G    EF  9F 007F4          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  03  FB 007FA          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 00801          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                  01  FB 00807          CALLS   #1,PAS$WRITELN2
                  000000FC     8F  DD 0080E          PUSHL   #252                              ; 5168
                                  07  DD 00814          PUSHL   #7
                                  04  DD 00816          PUSHL   #4
                  00000000G    EF  9F 00818          PUSHAB  SYS$OUTPUT_NAME
                                  0B  DD 0081E          PUSHL   #11
                                  01  DD 00820          PUSHL   #1
                  00000000G    EF  9F 00822          PUSHAB  FDL_DEST
   00000000G  EF                  07  FB 00828          CALLS   #7,PAS$OPEN2
                  00000000G    EF  9F 0082F          PUSHAB  FDL_DEST                          ; 5170
```

```
00000000G  EF             01  FB  00835         CALLS   #1,PAS$REWRITE2
                00000000G  EF  9F  0083C         PUSHAB  TEST                              ; 5172
00000000G  EF             01  FB  00842         CALLS   #1,SHOW_PRIMARY_SECTION
                00000000G  EF  9F  00849         PUSHAB  FDL_DEST                          ; 5174
00000000G  EF             01  FB  0084F         CALLS   #1,PAS$CLOSE2
                          00V  11  00856         BRB     28$
                00000000G  EF  9F  00858  26$:   PUSHAB  SHIFT                             ; 5180
                           04  DD  0085E         PUSHL   #4
                00000000G  EF  9F  00860         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  00866         CALLS   #3,PAS$WRITE_STRING
                00000000G  EF  9F  0086D         PUSHAB  QUES_HINT
                           1F  DD  00873         PUSHL   #31
                00000000G  EF  9F  00875         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  0087B         CALLS   #3,PAS$WRITE_STRING
                00000000G  EF  9F  00882         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01  FB  00888         CALLS   #1,PAS$WRITELN2
                00000000G  EF  9F  0088F  28$:   PUSHAB  SHIFT                             ; 5184
                           04  DD  00895         PUSHL   #4
                00000000G  EF  9F  00897         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  0089D         CALLS   #3,PAS$WRITE_STRING
                FFFF7CF6   EF  9F  008A4         PUSHAB  C.APE
                           0B  DD  008AA         PUSHL   #11
                00000000G  EF  9F  008AC         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  008B2         CALLS   #3,PAS$WRITE_STRING
                00000000G  EF  9F  008B9         PUSHAB  ACTIVE_AREA
00000000G  EF             01  FB  008BF         CALLS   #1,NUM_LEN
                           50  DD  008C6         PUSHL   R0
                00000000G  EF  DD  008C8         PUSHL   ACTIVE_AREA
                00000000G  EF  9F  008CE         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  008D4         CALLS   #3,PAS$WRITE_INTEGER
                FFFF7CCB   EF  9F  008DB         PUSHAB  C.APF
                           15  DD  008E1         PUSHL   #21
                00000000G  EF  9F  008E3         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  008E9         CALLS   #3,PAS$WRITE_STRING
                00000000G  EF  9F  008F0         PUSHAB  ANSI_REVERSE
                           04  DD  008F6         PUSHL   #4
                00000000G  EF  9F  008F8         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  008FE         CALLS   #3,PAS$WRITE_STRING
                FFFF7CB9   EF  9F  00905         PUSHAB  C.APG
                           03  DD  0090B         PUSHL   #3
                00000000G  EF  9F  0090D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  00913         CALLS   #3,PAS$WRITE_STRING
                00000000G  EF  9F  0091A         PUSHAB  ANSI_RESET
                           04  DD  00920         PUSHL   #4
                00000000G  EF  9F  00922         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  00928         CALLS   #3,PAS$WRITE_STRING
                FFFF7C93   EF  9F  0092F         PUSHAB  C.APH
                           03  DD  00935         PUSHL   #3
                00000000G  EF  9F  00937         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB  0093D         CALLS   #3,PAS$WRITE_STRING
                00000000   8F  DF  00944         PUSHAL  #0                                ; 5187
                       00  8F  9F  0094A         PUSHAB  #0
       F4  AD   00000000G  EF  9E  0094D         MOVAB   EDF$AB_AREA_TABLE_STA,-12(FP)
                       F4  AD  9F  00955         PUSHAB  -12(FP)
       F0  AD   00000000G  EF  9E  00958         MOVAB   EDF$AB_AREA_TABLE_KEY,-16(FP)
                       F0  AD  9F  00960         PUSHAB  -16(FP)
00000000G  EF             04  FB  00963         CALLS   #4,PARSE_INPUT
```

```
                                    0000V   31 0096A         BRW     126$
 03 00000000G   EF                    00   E0 0096D  29$:    BBS     #0,FULL_CHOICE,.+3                 ; 5200
                                    0000V   31 00975         BRW     35$
                        00000000      8F   DF 00978         PUSHAL  #0                                 ; 5204
    00000000G   EF                    01   FB 0097E         CALLS   #1,CLEAR
 00V00000000G   EF                    00   E0 00985         BBS     #0,FULL_PROMPT,32$                 ; 5206
 03 00000000G   EF                    00   E0 0098D         BBS     #0,TEMP_FULL_PROMPT,.+3
                                    0000V   31 00995         BRW     33$
                       00000000G      EF   9F 00998  32$:    PUSHAB  SHIFT                              ; 5210
                                      04   DD 0099E         PUSHL   #4
                       00000000G      EF   9F 009A0         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 009A6         CALLS   #3,PAS$WRITE_STRING
                        FFFF7C19      EF   9F 009AD         PUSHAB  C.API
                                      02   DD 009B3         PUSHL   #2
                       00000000G      EF   9F 009B5         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 009BB         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 009C2         PUSHAB  ANSI_REVERSE
                                      04   DD 009C8         PUSHL   #4
                       00000000G      EF   9F 009CA         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 009D0         CALLS   #3,PAS$WRITE_STRING
                        FFFF7BF3      EF   9F 009D7         PUSHAB  C.APJ
                                      0E   DD 009DD         PUSHL   #14
                       00000000G      EF   9F 009DF         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 009E5         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 009EC         PUSHAB  SEC_ATTR
                                      16   DD 009F2         PUSHL   #22
                       00000000G      EF   9F 009F4         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 009FA         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 00A01         PUSHAB  ANSI_RESET
                                      04   DD 00A07         PUSHL   #4
                       00000000G      EF   9F 00A09         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A0F         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 00A16         PUSHAB  CRLF
                                      02   DD 00A1C         PUSHL   #2
                       00000000G      EF   9F 00A1E         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A24         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 00A2B         PUSHAB  CRLF_SHIFT
                                      06   DD 00A31         PUSHL   #6
                       00000000G      EF   9F 00A33         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A39         CALLS   #3,PAS$WRITE_STRING
                        FFFF7B9A      EF   9F 00A40         PUSHAB  C.APK
                                      24   DD 00A46         PUSHL   #36
                       00000000G      EF   9F 00A48         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A4E         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 00A55         PUSHAB  CRLF_SHIFT
                                      06   DD 00A5B         PUSHL   #6
                       00000000G      EF   9F 00A5D         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A63         CALLS   #3,PAS$WRITE_STRING
                        FFFF7B94      EF   9F 00A6A         PUSHAB  C.APL
                                      2A   DD 00A70         PUSHL   #42
                       00000000G      EF   9F 00A72         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A78         CALLS   #3,PAS$WRITE_STRING
                       00000000G      EF   9F 00A7F         PUSHAB  CRLF_SHIFT
                                      06   DD 00A85         PUSHL   #6
                       00000000G      EF   9F 00A87         PUSHAB  PAS$FV_OUTPUT
    00000000G   EF                    03   FB 00A8D         CALLS   #3,PAS$WRITE_STRING
                        FFFF7B96      EF   9F 00A94         PUSHAB  C.APM
```

```
                                26      DD 00A9A            PUSHL   #38
                     00000000G  EF      9F 00A9C            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00AA2            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00AA9            PUSHAB  CRLF_SHIFT
                                06      DD 00AAF            PUSHL   #6
                     00000000G  EF      9F 00AB1            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00AB7            CALLS   #3,PAS$WRITE_STRING
                     FFFF7B94   EF      9F 00ABE            PUSHAB  C.APN
                                28      DD 00AC4            PUSHL   #40
                     00000000G  EF      9F 00AC6            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00ACC            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00AD3            PUSHAB  CRLF_SHIFT
                                06      DD 00AD9            PUSHL   #6
                     00000000G  EF      9F 00ADB            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00AE1            CALLS   #3,PAS$WRITE_STRING
                     FFFF7B92   EF      9F 00AE8            PUSHAB  C.APO
                                2A      DD 00AEE            PUSHL   #42
                     00000000G  EF      9F 00AF0            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00AF6            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00AFD            PUSHAB  CRLF_SHIFT
                                06      DD 00B03            PUSHL   #6
                     00000000G  EF      9F 00B05            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B0B            CALLS   #3,PAS$WRITE_STRING
                     FFFF7B94   EF      9F 00B12            PUSHAB  C.APP
                                2A      DD 00B18            PUSHL   #42
                     00000000G  EF      9F 00B1A            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B20            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00B27            PUSHAB  CRLF_SHIFT
                                06      DD 00B2D            PUSHL   #6
                     00000000G  EF      9F 00B2F            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B35            CALLS   #3,PAS$WRITE_STRING
                     FFFF7B96   EF      9F 00B3C            PUSHAB  C.APQ
                                2C      DD 00B42            PUSHL   #44
                     00000000G  EF      9F 00B44            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B4A            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00B51            PUSHAB  CRLF_SHIFT
                                06      DD 00B57            PUSHL   #6
                     00000000G  EF      9F 00B59            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B5F            CALLS   #3,PAS$WRITE_STRING
                     FFFF7B98   EF      9F 00B66            PUSHAB  C.APR
                                33      DD 00B6C            PUSHL   #51
                     00000000G  EF      9F 00B6E            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B74            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00B7B            PUSHAB  CRLF_SHIFT
                                06      DD 00B81            PUSHL   #6
                     00000000G  EF      9F 00B83            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B89            CALLS   #3,PAS$WRITE_STRING
                     FFFF7BA2   EF      9F 00B90            PUSHAB  C.APS
                                29      DD 00B96            PUSHL   #41
                     00000000G  EF      9F 00B98            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00B9E            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF      9F 00BA5            PUSHAB  CRLF_SHIFT
                                06      DD 00BAB            PUSHL   #6
                     00000000G  EF      9F 00BAD            PUSHAB  PAS$FV_OUTPUT
    00000000G   EF              03      FB 00BB3            CALLS   #3,PAS$WRITE_STRING
                     FFFF7BA4   EF      9F 00BBA            PUSHAB  C.APT
                                2C      DD 00BC0            PUSHL   #44
```

```
               00000000G  EF   9F 00BC2        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00BC8        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00BCF        PUSHAB  CRLF_SHIFT
                          06   DD 00BD5        PUSHL   #6
               00000000G  EF   9F 00BD7        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00BDD        CALLS   #3,PAS$WRITE_STRING
               FFFF7BA6   EF   9F 00BE4        PUSHAB  C.APU
                          2E   DD 00BEA        PUSHL   #46
               00000000G  EF   9F 00BEC        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00BF2        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00BF9        PUSHAB  CRLF_SHIFT
                          06   DD 00BFF        PUSHL   #6
               00000000G  EF   9F 00C01        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C07        CALLS   #3,PAS$WRITE_STRING
               FFFF7BAC   EF   9F 00C0E        PUSHAB  C.APV
                          2B   DD 00C14        PUSHL   #43
               00000000G  EF   9F 00C16        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C1C        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00C23        PUSHAB  CRLF_SHIFT
                          06   DD 00C29        PUSHL   #6
               00000000G  EF   9F 00C2B        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C31        CALLS   #3,PAS$WRITE_STRING
               FFFF7BAE   EF   9F 00C38        PUSHAB  C.APW
                          2C   DD 00C3E        PUSHL   #44
               00000000G  EF   9F 00C40        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C46        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00C4D        PUSHAB  CRLF_SHIFT
                          06   DD 00C53        PUSHL   #6
               00000000G  EF   9F 00C55        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C5B        CALLS   #3,PAS$WRITE_STRING
               FFFF7BB0   EF   9F 00C62        PUSHAB  C.APX
                          27   DD 00C68        PUSHL   #39
               00000000G  EF   9F 00C6A        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C70        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00C77        PUSHAB  CRLF_SHIFT
                          06   DD 00C7D        PUSHL   #6
               00000000G  EF   9F 00C7F        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C85        CALLS   #3,PAS$WRITE_STRING
               FFFF7BAE   EF   9F 00C8C        PUSHAB  C.APY
                          2F   DD 00C92        PUSHL   #47
               00000000G  EF   9F 00C94        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00C9A        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00CA1        PUSHAB  CRLF_SHIFT
                          06   DD 00CA7        PUSHL   #6
               00000000G  EF   9F 00CA9        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00CAF        CALLS   #3,PAS$WRITE_STRING
               FFFF7BB4   EF   9F 00CB6        PUSHAB  C.APZ
                          2C   DD 00CBC        PUSHL   #44
               00000000G  EF   9F 00CBE        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00CC4        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF   9F 00CCB        PUSHAB  CRLF_SHIFT
                          06   DD 00CD1        PUSHL   #6
               00000000G  EF   9F 00CD3        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00CD9        CALLS   #3,PAS$WRITE_STRING
               FFFF7BB6   EF   9F 00CE0        PUSHAB  C.AQA
                          18   DD 00CE6        PUSHL   #24
               00000000G  EF   9F 00CE8        PUSHAB  PAS$FV_OUTPUT
```

```
          00000000G  EF             03  FB 00CEE          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00CF5          PUSHAB  CRLF
                                    02  DD 00CFB          PUSHL   #2
                         00000000G  EF  9F 00CFD          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00D03          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00D0A          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             01  FB 00D10          CALLS   #1,PAS$WRITELN2
                                 0000V  31 00D17          BRW     40$
                         00000000G  EF  9F 00D1A 33$:     PUSHAB  SHIFT                                   ; 5254
                                    04  DD 00D20          PUSHL   #4
                         00000000G  EF  9F 00D22          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00D28          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00D2F          PUSHAB  QUES_HINT
                                    1F  DD 00D35          PUSHL   #31
                         00000000G  EF  9F 00D37          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00D3D          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00D44          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             01  FB 00D4A          CALLS   #1,PAS$WRITELN2
                                 0000V  31 00D51          BRW     40$
                         00000000   8F  DF 00D54 35$:     PUSHAL  #0                                      ; 5262
          00000000G  EF             01  FB 00D5A          CALLS   #1,CLEAR
       00V00000000G  EF             00  E0 00D61          BBS     #0,FULL_PROMPT,37$                      ; 5264
       03 00000000G  EF             00  E0 00D69          BBS     #0,TEMP_FULL_PROMPT,.+3
                                 0000V  31 00D71          BRW     38$
                         00000000G  EF  9F 00D74 37$:     PUSHAB  SHIFT                                   ; 5268
                                    04  DD 00D7A          PUSHL   #4
                         00000000G  EF  9F 00D7C          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00D82          CALLS   #3,PAS$WRITE_STRING
                         FFFF7B25   EF  9F 00D89          PUSHAB  C.AQB
                                    02  DD 00D8F          PUSHL   #2
                         00000000G  EF  9F 00D91          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00D97          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00D9E          PUSHAB  ANSI_REVERSE
                                    04  DD 00DA4          PUSHL   #4
                         00000000G  EF  9F 00DA6          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00DAC          CALLS   #3,PAS$WRITE_STRING
                         FFFF7AFF   EF  9F 00DB3          PUSHAB  C.AQC
                                    10  DD 00DB9          PUSHL   #16
                         00000000G  EF  9F 00DBB          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00DC1          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00DC8          PUSHAB  SEC_ATTR
                                    16  DD 00DCE          PUSHL   #22
                         00000000G  EF  9F 00DD0          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00DD6          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00DDD          PUSHAB  ANSI_RESET
                                    04  DD 00DE3          PUSHL   #4
                         00000000G  EF  9F 00DE5          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00DEB          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00DF2          PUSHAB  CRLF
                                    02  DD 00DF8          PUSHL   #2
                         00000000G  EF  9F 00DFA          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03  FB 00E00          CALLS   #3,PAS$WRITE_STRING
                         00000000G  EF  9F 00E07          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             01  FB 00E0D          CALLS   #1,PAS$WRITELN2
                         000000FC   8F  DD 00E14          PUSHL   #252                                    ; 5275
                                    07  DD 00E1A          PUSHL   #7
                                    04  DD 00E1C          PUSHL   #4
```

```
                   00000000G   EF    9F 00E1E          PUSHAB   SYS$OUTPUT_NAME
                               0B    DD 00E24          PUSHL    #11
                               01    DD 00E26          PUSHL    #1
                   00000000G   EF    9F 00E28          PUSHAB   FDL_DEST
   00000000G  EF               07    FB 00E2E          CALLS    #7,PAS$OPEN2
                   00000000G   EF    9F 00E35          PUSHAB   FDL_DEST                                    ; 5277
   00000000G  EF               01    FB 00E3B          CALLS    #1,PAS$REWRITE2
                   00000000G   EF    9F 00E42          PUSHAB   TEST                                        ; 5279
   00000000G  EF               01    FB 00E48          CALLS    #1,SHOW_PRIMARY_SECTION
                   00000000G   EF    9F 00E4F          PUSHAB   FDL_DEST                                    ; 5281
   00000000G  EF               01    FB 00E55          CALLS    #1,PAS$CLOSE2
                               00V   11 00E5C          BRB      40$
                   00000000G   EF    9F 00E5E  38$:    PUSHAB   SHIFT                                       ; 5287
                               04    DD 00E64          PUSHL    #4
                   00000000G   EF    9F 00E66          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00E6C          CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF    9F 00E73          PUSHAB   QUES_HINT
                               1F    DD 00E79          PUSHL    #31
                   00000000G   EF    9F 00E7B          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00E81          CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF    9F 00E88          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               01    FB 00E8E          CALLS    #1,PAS$WRITELN2
                   00000000G   EF    9F 00E95  40$:    PUSHAB   SHIFT                                       ; 5291
                               04    DD 00E9B          PUSHL    #4
                   00000000G   EF    9F 00E9D          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00EA3          CALLS    #3,PAS$WRITE_STRING
                   FFFF7A18    EF    9F 00EAA          PUSHAB   C.AQD
                               22    DD 00EB0          PUSHL    #34
                   00000000G   EF    9F 00EB2          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00EB8          CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF    9F 00EBF          PUSHAB   ANSI_REVERSE
                               04    DD 00EC5          PUSHL    #4
                   00000000G   EF    9F 00EC7          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00ECD          CALLS    #3,PAS$WRITE_STRING
                   FFFF7A12    EF    9F 00ED4          PUSHAB   C.AQE
                               03    DD 00EDA          PUSHL    #3
                   00000000G   EF    9F 00EDC          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00EE2          CALLS    #3,PAS$WRITE_STRING
                   00000000G   EF    9F 00EE9          PUSHAB   ANSI_RESET
                               04    DD 00EEF          PUSHL    #4
                   00000000G   EF    9F 00EF1          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00EF7          CALLS    #3,PAS$WRITE_STRING
                   FFFF79EC    EF    9F 00EFE          PUSHAB   C.AQF
                               03    DD 00F04          PUSHL    #3
                   00000000G   EF    9F 00F06          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03    FB 00F0C          CALLS    #3,PAS$WRITE_STRING
                   00000000    8F    DF 00F13          PUSHAL   #0                                          ; 5293
                          00   8F    9F 00F19          PUSHAB   #0
          F4  AD   00000000G   EF    9E 00F1C          MOVAB    EDF$AB_CONNECT_TABLE_STA,-12(FP)
                          F4   AD    9F 00F24          PUSHAB   -12(FP)
          F0  AD   00000000G   EF    9E 00F27          MOVAB    EDF$AB_CONNECT_TABLE_KEY,-16(FP)
                          F0   AD    9F 00F2F          PUSHAB   -16(FP)
   00000000G  EF               04    FB 00F32          CALLS    #4,PARSE_INPUT
                             0000V   31 00F39          BRW      126$
03 00000000G  EF               00    E0 00F3C  41$:    BBS      #0,FULL_CHOICE,.+3                          ; 5306
                             0000V   31 00F44          BRW      47$
                   00000000    8F    DF 00F47          PUSHAL   #0                                          ; 5310
```

```
    00000000G  EF                  01  FB 00F4D        CALLS   #1,CLEAR
 00V00000000G  EF                  00  E0 00F54        BBS     #0,FULL_PROMPT,44$                      ; 5312
 03 00000000G  EF                  00  E0 00F5C        BBS     #0,TEMP_FULL_PROMPT,.+3
                               0000V  31 00F64        BRW     45$
                   00000000G      EF  9F 00F67 44$:   PUSHAB  SHIFT                                   ; 5316
                                   04  DD 00F6D        PUSHL   #4
                   00000000G      EF  9F 00F6F        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00F75        CALLS   #3,PAS$WRITE_STRING
                    FFFF7972      EF  9F 00F7C        PUSHAB  C.AQG
                                   02  DD 00F82        PUSHL   #2
                   00000000G      EF  9F 00F84        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00F8A        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00F91        PUSHAB  ANSI_REVERSE
                                   04  DD 00F97        PUSHL   #4
                   00000000G      EF  9F 00F99        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00F9F        CALLS   #3,PAS$WRITE_STRING
                    FFFF794C      EF  9F 00FA6        PUSHAB  C.AQH
                                   0B  DD 00FAC        PUSHL   #11
                   00000000G      EF  9F 00FAE        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00FB4        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00FBB        PUSHAB  SEC_ATTR
                                   16  DD 00FC1        PUSHL   #22
                   00000000G      EF  9F 00FC3        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00FC9        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00FD0        PUSHAB  ANSI_RESET
                                   04  DD 00FD6        PUSHL   #4
                   00000000G      EF  9F 00FD8        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00FDE        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00FE5        PUSHAB  CRLF
                                   02  DD 00FEB        PUSHL   #2
                   00000000G      EF  9F 00FED        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 00FF3        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00FFA        PUSHAB  CRLF_SHIFT
                                   06  DD 01000        PUSHL   #6
                   00000000G      EF  9F 01002        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 01008        CALLS   #3,PAS$WRITE_STRING
                    FFFF78EF      EF  9F 0100F        PUSHAB  C.AQI
                                   0F  DD 01015        PUSHL   #15
                   00000000G      EF  9F 01017        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 0101D        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 01024        PUSHAB  CRLF_SHIFT
                                   06  DD 0102A        PUSHL   #6
                   00000000G      EF  9F 0102C        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 01032        CALLS   #3,PAS$WRITE_STRING
                    FFFF78D5      EF  9F 01039        PUSHAB  C.AQJ
                                   10  DD 0103F        PUSHL   #16
                   00000000G      EF  9F 01041        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 01047        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 0104E        PUSHAB  CRLF_SHIFT
                                   06  DD 01054        PUSHL   #6
                   00000000G      EF  9F 01056        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 0105C        CALLS   #3,PAS$WRITE_STRING
                    FFFF78BB      EF  9F 01063        PUSHAB  C.AQK
                                   12  DD 01069        PUSHL   #18
                   00000000G      EF  9F 0106B        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                  03  FB 01071        CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 01078        PUSHAB  CRLF_SHIFT
```

```
                                   06  DD 0107E          PUSHL    #6
                       00000000G   EF  9F 01080          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 01086          CALLS    #3,PAS$WRITE_STRING
                       FFFF78A5    EF  9F 0108D          PUSHAB   C.AQL
                                   10  DD 01093          PUSHL    #16
                       00000000G   EF  9F 01095          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 0109B          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 010A2          PUSHAB   CRLF
                                   02  DD 010A8          PUSHL    #2
                       00000000G   EF  9F 010AA          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 010B0          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 010B7          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              01  FB 010BD          CALLS    #1,PAS$WRITELN2
                               0000V   31 010C4          BRW      52$
                       00000000G   EF  9F 010C7  45$:    PUSHAB   SHIFT                                    ; 5333
                                   04  DD 010CD          PUSHL    #4
                       00000000G   EF  9F 010CF          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 010D5          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 010DC          PUSHAB   QUES_HINT
                                   1F  DD 010E2          PUSHL    #31
                       00000000G   EF  9F 010E4          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 010EA          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 010F1          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              01  FB 010F7          CALLS    #1,PAS$WRITELN2
                               0000V   31 010FE          BRW      52$
                       00000000    8F  DF 01101  47$:    PUSHAL   #0                                       ; 5341
        00000000G  EF              01  FB 01107          CALLS    #1,CLEAR
    00V00000000G  EF              00  E0 0110E          BBS      #0,FULL_PROMPT,49$                       ; 5343
     03 00000000G  EF              00  E0 01116          BBS      #0,TEMP_FULL_PROMPT,.+3
                               0000V   31 0111E          BRW      50$
                       00000000G   EF  9F 01121  49$:    PUSHAB   SHIFT                                    ; 5347
                                   04  DD 01127          PUSHL    #4
                       00000000G   EF  9F 01129          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 0112F          CALLS    #3,PAS$WRITE_STRING
                       FFFF780C    EF  9F 01136          PUSHAB   C.AQM
                                   02  DD 0113C          PUSHL    #2
                       00000000G   EF  9F 0113E          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 01144          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 0114B          PUSHAB   ANSI_REVERSE
                                   04  DD 01151          PUSHL    #4
                       00000000G   EF  9F 01153          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 01159          CALLS    #3,PAS$WRITE_STRING
                       FFFF77E6    EF  9F 01160          PUSHAB   C.AQN
                                   0D  DD 01166          PUSHL    #13
                       00000000G   EF  9F 01168          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 0116E          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 01175          PUSHAB   SEC_ATTR
                                   16  DD 0117B          PUSHL    #22
                       00000000G   EF  9F 0117D          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 01183          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 0118A          PUSHAB   ANSI_RESET
                                   04  DD 01190          PUSHL    #4
                       00000000G   EF  9F 01192          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF              03  FB 01198          CALLS    #3,PAS$WRITE_STRING
                       00000000G   EF  9F 0119F          PUSHAB   CRLF
                                   02  DD 011A5          PUSHL    #2
                       00000000G   EF  9F 011A7          PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF            03    FB 011AD          CALLS    #3,PAS$WRITE_STRING
              00000000G  EF    9F 011B4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            01    FB 011BA          CALLS    #1,PAS$WRITELN2
              000000FC   8F    DD 011C1          PUSHL    #252                                   ; 5354
                         07    DD 011C7          PUSHL    #7
                         04    DD 011C9          PUSHL    #4
              00000000G  EF    9F 011CB          PUSHAB   SYS$OUTPUT_NAME
                         0B    DD 011D1          PUSHL    #11
                         01    DD 011D3          PUSHL    #1
              00000000G  EF    9F 011D5          PUSHAB   FDL_DEST
00000000G  EF            07    FB 011DB          CALLS    #7,PAS$OPEN2
              00000000G  EF    9F 011E2          PUSHAB   FDL_DEST                               ; 5356
00000000G  EF            01    FB 011E8          CALLS    #1,PAS$REWRITE2
              00000000G  EF    9F 011EF          PUSHAB   TEST                                   ; 5358
00000000G  EF            01    FB 011F5          CALLS    #1,SHOW_PRIMARY_SECTION
              00000000G  EF    9F 011FC          PUSHAB   FDL_DEST                               ; 5360
00000000G  EF            01    FB 01202          CALLS    #1,PAS$CLOSE2
                         00V   11 01209          BRB      52$
              00000000G  EF    9F 0120B  50$:    PUSHAB   SHIFT                                  ; 5366
                         04    DD 01211          PUSHL    #4
              00000000G  EF    9F 01213          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 01219          CALLS    #3,PAS$WRITE_STRING
              00000000G  EF    9F 01220          PUSHAB   QUES_HINT
                         1F    DD 01226          PUSHL    #31
              00000000G  EF    9F 01228          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 0122E          CALLS    #3,PAS$WRITE_STRING
              00000000G  EF    9F 01235          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            01    FB 0123B          CALLS    #1,PAS$WRITELN2
              00000000G  EF    9F 01242  52$:    PUSHAB   SHIFT                                  ; 5370
                         04    DD 01248          PUSHL    #4
              00000000G  EF    9F 0124A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 01250          CALLS    #3,PAS$WRITE_STRING
              FFFF76FF   EF    9F 01257          PUSHAB   C.AQO
                         1F    DD 0125D          PUSHL    #31
              00000000G  EF    9F 0125F          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 01265          CALLS    #3,PAS$WRITE_STRING
              00000000G  EF    9F 0126C          PUSHAB   ANSI_REVERSE
                         04    DD 01272          PUSHL    #4
              00000000G  EF    9F 01274          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 0127A          CALLS    #3,PAS$WRITE_STRING
              FFFF76F5   EF    9F 01281          PUSHAB   C.AQP
                         03    DD 01287          PUSHL    #3
              00000000G  EF    9F 01289          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 0128F          CALLS    #3,PAS$WRITE_STRING
              00000000G  EF    9F 01296          PUSHAB   ANSI_RESET
                         04    DD 0129C          PUSHL    #4
              00000000G  EF    9F 0129E          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 012A4          CALLS    #3,PAS$WRITE_STRING
              FFFF76CF   EF    9F 012AB          PUSHAB   C.AQQ
                         03    DD 012B1          PUSHL    #3
              00000000G  EF    9F 012B3          PUSHAB   PAS$FV_OUTPUT
00000000G  EF            03    FB 012B9          CALLS    #3,PAS$WRITE_STRING
              00000000   8F    DF 012C0          PUSHAL   #0                                     ; 5372
                     00  8F    9F 012C6          PUSHAB   #0
       F4  AD 00000000G  EF    9E 012C9          MOVAB    EDF$AB_DATE_TABLE_STA,-12(FP)
                     F4  AD    9F 012D1          PUSHAB   -12(FP)
       F0  AD 00000000G  EF    9E 012D4          MOVAB    EDF$AB_DATE_TABLE_KEY,-16(FP)
```

```
                                             F0    AD  9F 012DC         PUSHAB  -16(FP)
                       00000000G  EF               04  FB 012DF         CALLS   #4,PARSE_INPUT
                                                0000V  31 012E6         BRW     126$
                    03 00000000G  EF               00  E0 012E9 53$:    BBS     #0,FULL_CHOICE,.+3                      ; 5385
                                                0000V  31 012F1         BRW     59$
                                      00000000     8F  DF 012F4         PUSHAL  #0                                      ; 5389
                       00000000G  EF               01  FB 012FA         CALLS   #1,CLEAR
                    00v00000000G  EF               00  E0 01301         BBS     #0,FULL_PROMPT,56$                      ; 5391
                    03 00000000G  EF               00  E0 01309         BBS     #0,TEMP_FULL_PROMPT,.+3
                                                0000V  31 01311         BRW     57$
                                      00000000G    EF  9F 01314 56$:    PUSHAB  SHIFT                                   ; 5395
                                                   04  DD 0131A         PUSHL   #4
                                      00000000G    EF  9F 0131C         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 01322         CALLS   #3,PAS$WRITE_STRING
                                      FFFF7655     EF  9F 01329         PUSHAB  C.AQR
                                                   02  DD 0132F         PUSHL   #2
                                      00000000G    EF  9F 01331         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 01337         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 0133E         PUSHAB  ANSI_REVERSE
                                                   04  DD 01344         PUSHL   #4
                                      00000000G    EF  9F 01346         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 0134C         CALLS   #3,PAS$WRITE_STRING
                                      FFFF762F     EF  9F 01353         PUSHAB  C.AQS
                                                   0B  DD 01359         PUSHL   #11
                                      00000000G    EF  9F 0135B         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 01361         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 01368         PUSHAB  SEC_ATTR
                                                   16  DD 0136E         PUSHL   #22
                                      00000000G    EF  9F 01370         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 01376         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 0137D         PUSHAB  ANSI_RESET
                                                   04  DD 01383         PUSHL   #4
                                      00000000G    EF  9F 01385         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 0138B         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 01392         PUSHAB  CRLF
                                                   02  DD 01398         PUSHL   #2
                                      00000000G    EF  9F 0139A         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 013A0         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 013A7         PUSHAB  CRLF_SHIFT
                                                   06  DD 013AD         PUSHL   #6
                                      00000000G    EF  9F 013AF         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 013B5         CALLS   #3,PAS$WRITE_STRING
                                      FFFF75D2     EF  9F 013BC         PUSHAB  C.AQT
                                                   2A  DD 013C2         PUSHL   #42
                                      00000000G    EF  9F 013C4         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 013CA         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 013D1         PUSHAB  CRLF_SHIFT
                                                   06  DD 013D7         PUSHL   #6
                                      00000000G    EF  9F 013D9         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 013DF         CALLS   #3,PAS$WRITE_STRING
                                      FFFF75D4     EF  9F 013E6         PUSHAB  C.AQU
                                                   28  DD 013EC         PUSHL   #40
                                      00000000G    EF  9F 013EE         PUSHAB  PAS$FV_OUTPUT
                       00000000G  EF               03  FB 013F4         CALLS   #3,PAS$WRITE_STRING
                                      00000000G    EF  9F 013FB         PUSHAB  CRLF_SHIFT
                                                   06  DD 01401         PUSHL   #6
                                      00000000G    EF  9F 01403         PUSHAB  PAS$FV_OUTPUT
```

```
                        00000000G  EF             03   FB 01409           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75D2 EF   9F 01410           PUSHAB   C.AQV
                                                  24   DD 01416           PUSHL    #36
                                         00000000G EF  9F 01418           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 0141E           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 01425           PUSHAB   CRLF_SHIFT
                                                  06   DD 0142B           PUSHL    #6
                                         00000000G EF  9F 0142D           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 01433           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75CC EF   9F 0143A           PUSHAB   C.AQW
                                                  2F   DD 01440           PUSHL    #47
                                         00000000G EF  9F 01442           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 01448           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 0144F           PUSHAB   CRLF_SHIFT
                                                  06   DD 01455           PUSHL    #6
                                         00000000G EF  9F 01457           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 0145D           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75D2 EF   9F 01464           PUSHAB   C.AQX
                                                  26   DD 0146A           PUSHL    #38
                                         00000000G EF  9F 0146C           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 01472           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 01479           PUSHAB   CRLF_SHIFT
                                                  06   DD 0147F           PUSHL    #6
                                         00000000G EF  9F 01481           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 01487           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75D0 EF   9F 0148E           PUSHAB   C.AQY
                                                  2B   DD 01494           PUSHL    #43
                                         00000000G EF  9F 01496           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 0149C           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 014A3           PUSHAB   CRLF_SHIFT
                                                  06   DD 014A9           PUSHL    #6
                                         00000000G EF  9F 014AB           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 014B1           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75D2 EF   9F 014B8           PUSHAB   C.AQZ
                                                  1D   DD 014BE           PUSHL    #29
                                         00000000G EF  9F 014C0           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 014C6           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 014CD           PUSHAB   CRLF_SHIFT
                                                  06   DD 014D3           PUSHL    #6
                                         00000000G EF  9F 014D5           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 014DB           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75C8 EF   9F 014E2           PUSHAB   C.ARA
                                                  2B   DD 014E8           PUSHL    #43
                                         00000000G EF  9F 014EA           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 014F0           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 014F7           PUSHAB   CRLF_SHIFT
                                                  06   DD 014FD           PUSHL    #6
                                         00000000G EF  9F 014FF           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 01505           CALLS    #3,PAS$WRITE_STRING
                                         FFFF75CA EF   9F 0150C           PUSHAB   C.ARB
                                                  29   DD 01512           PUSHL    #41
                                         00000000G EF  9F 01514           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 0151A           CALLS    #3,PAS$WRITE_STRING
                                         00000000G EF  9F 01521           PUSHAB   CRLF_SHIFT
                                                  06   DD 01527           PUSHL    #6
                                         00000000G EF  9F 01529           PUSHAB   PAS$FV_OUTPUT
                        00000000G  EF             03   FB 0152F           CALLS    #3,PAS$WRITE_STRING
```

```
                         FFFF75CC  EF   9F 01536        PUSHAB  C.ARC
                                   2A   DD 0153C        PUSHL   #42
                         00000000G EF   9F 0153E        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01544        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 0154B        PUSHAB  CRLF_SHIFT
                                   06   DD 01551        PUSHL   #6
                         00000000G EF   9F 01553        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01559        CALLS   #3,PAS$WRITE_STRING
                         FFFF75CE  EF   9F 01560        PUSHAB  C.ARD
                                   28   DD 01566        PUSHL   #40
                         00000000G EF   9F 01568        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 0156E        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 01575        PUSHAB  CRLF_SHIFT
                                   06   DD 0157B        PUSHL   #6
                         00000000G EF   9F 0157D        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01583        CALLS   #3,PAS$WRITE_STRING
                         FFFF75CC  EF   9F 0158A        PUSHAB  C.ARE
                                   29   DD 01590        PUSHL   #41
                         00000000G EF   9F 01592        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01598        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 0159F        PUSHAB  CRLF_SHIFT
                                   06   DD 015A5        PUSHL   #6
                         00000000G EF   9F 015A7        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 015AD        CALLS   #3,PAS$WRITE_STRING
                         FFFF75CE  EF   9F 015B4        PUSHAB  C.ARF
                                   32   DD 015BA        PUSHL   #50
                         00000000G EF   9F 015BC        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 015C2        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 015C9        PUSHAB  CRLF_SHIFT
                                   06   DD 015CF        PUSHL   #6
                         00000000G EF   9F 015D1        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 015D7        CALLS   #3,PAS$WRITE_STRING
                         FFFF75D8  EF   9F 015DE        PUSHAB  C.ARG
                                   2A   DD 015E4        PUSHL   #42
                         00000000G EF   9F 015E6        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 015EC        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 015F3        PUSHAB  CRLF_SHIFT
                                   06   DD 015F9        PUSHL   #6
                         00000000G EF   9F 015FB        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01601        CALLS   #3,PAS$WRITE_STRING
                         FFFF75DA  EF   9F 01608        PUSHAB  C.ARH
                                   29   DD 0160E        PUSHL   #41
                         00000000G EF   9F 01610        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01616        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 0161D        PUSHAB  CRLF_SHIFT
                                   06   DD 01623        PUSHL   #6
                         00000000G EF   9F 01625        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 0162B        CALLS   #3,PAS$WRITE_STRING
                         FFFF75DC  EF   9F 01632        PUSHAB  C.ARI
                                   2E   DD 01638        PUSHL   #46
                         00000000G EF   9F 0163A        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01640        CALLS   #3,PAS$WRITE_STRING
                         00000000G EF   9F 01647        PUSHAB  CRLF_SHIFT
                                   06   DD 0164D        PUSHL   #6
                         00000000G EF   9F 0164F        PUSHAB  PAS$FV_OUTPUT
           00000000G  EF           03   FB 01655        CALLS   #3,PAS$WRITE_STRING
                         FFFF75E2  EF   9F 0165C        PUSHAB  C.ARJ
```

```
                             2E  DD 01662          PUSHL   #46
                  00000000G  EF  9F 01664          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0166A          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 01671          PUSHAB  CRLF_SHIFT
                             06  DD 01677          PUSHL   #6
                  00000000G  EF  9F 01679          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0167F          CALLS   #3,PAS$WRITE_STRING
                  FFFF75E8   EF  9F 01686          PUSHAB  C.ARK
                             2E  DD 0168C          PUSHL   #46
                  00000000G  EF  9F 0168E          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 01694          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 0169B          PUSHAB  CRLF_SHIFT
                             06  DD 016A1          PUSHL   #6
                  00000000G  EF  9F 016A3          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 016A9          CALLS   #3,PAS$WRITE_STRING
                  FFFF75EE   EF  9F 016B0          PUSHAB  C.ARL
                             26  DD 016B6          PUSHL   #38
                  00000000G  EF  9F 016B8          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 016BE          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 016C5          PUSHAB  CRLF
                             02  DD 016CB          PUSHL   #2
                  00000000G  EF  9F 016CD          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 016D3          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 016DA          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01  FB 016E0          CALLS   #1,PAS$WRITELN2
                          0000V  31 016E7          BRW     64$
                  00000000G  EF  9F 016EA 57$:     PUSHAB  SHIFT                                    ; 5442
                             04  DD 016F0          PUSHL   #4
                  00000000G  EF  9F 016F2          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 016F8          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 016FF          PUSHAB  QUES_HINT
                             1F  DD 01705          PUSHL   #31
                  00000000G  EF  9F 01707          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0170D          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 01714          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01  FB 0171A          CALLS   #1,PAS$WRITELN2
                          0000V  31 01721          BRW     64$
                  00000000   8F  DF 01724 59$:     PUSHAL  #0                                       ; 5450
   00000000G  EF             01  FB 0172A          CALLS   #1,CLEAR
00V00000000G  EF             00  E0 01731          BBS     #0,FULL_PROMPT,61$                       ; 5452
03 00000000G  EF             00  E0 01739          BBS     #0,TEMP_FULL_PROMPT,.+3
                          0000V  31 01741          BRW     62$
                  00000000G  EF  9F 01744 61$:     PUSHAB  SHIFT                                    ; 5456
                             04  DD 0174A          PUSHL   #4
                  00000000G  EF  9F 0174C          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 01752          CALLS   #3,PAS$WRITE_STRING
                  FFFF756B   EF  9F 01759          PUSHAB  C.ARM
                             02  DD 0175F          PUSHL   #2
                  00000000G  EF  9F 01761          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 01767          CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF  9F 0176E          PUSHAB  ANSI_REVERSE
                             04  DD 01774          PUSHL   #4
                  00000000G  EF  9F 01776          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03  FB 0177C          CALLS   #3,PAS$WRITE_STRING
                  FFFF7543   EF  9F 01783          PUSHAB  C.ARN
                             0D  DD 01789          PUSHL   #13
                  00000000G  EF  9F 0178B          PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF              03   FB 01791        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 01798        PUSHAB   SEC_ATTR
                           16   DD 0179E        PUSHL    #22
                00000000G  EF   9F 017A0        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 017A6        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 017AD        PUSHAB   ANSI_RESET
                           04   DD 017B3        PUSHL    #4
                00000000G  EF   9F 017B5        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 017BB        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 017C2        PUSHAB   CRLF
                           02   DD 017C8        PUSHL    #2
                00000000G  EF   9F 017CA        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 017D0        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 017D7        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              01   FB 017DD        CALLS    #1,PAS$WRITELN2
                000000FC   8F   DD 017E4        PUSHL    #252                                          ; 5463
                           07   DD 017EA        PUSHL    #7
                           04   DD 017EC        PUSHL    #4
                00000000G  EF   9F 017EE        PUSHAB   SYS$OUTPUT_NAME
                           0B   DD 017F4        PUSHL    #11
                           01   DD 017F6        PUSHL    #1
                00000000G  EF   9F 017F8        PUSHAB   FDL_DEST
00000000G  EF              07   FB 017FE        CALLS    #7,PAS$OPEN2
                00000000G  EF   9F 01805        PUSHAB   FDL_DEST                                      ; 5465
00000000G  EF              01   FB 0180B        CALLS    #1,PAS$REWRITE2
                00000000G  EF   9F 01812        PUSHAB   TEST                                          ; 5467
00000000G  EF              01   FB 01818        CALLS    #1,SHOW_PRIMARY_SECTION
                00000000G  EF   9F 0181F        PUSHAB   FDL_DEST                                      ; 5469
00000000G  EF              01   FB 01825        CALLS    #1,PAS$CLOSE2
                           00V  11 0182C        BRB      63$
                00000000G  EF   9F 0182E 62$:   PUSHAB   SHIFT                                         ; 5475
                           04   DD 01834        PUSHL    #4
                00000000G  EF   9F 01836        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 0183C        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 01843        PUSHAB   QUES_HINT
                           1F   DD 01849        PUSHL    #31
                00000000G  EF   9F 0184B        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 01851        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 01858        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              01   FB 0185E        CALLS    #1,PAS$WRITELN2
                                   01865 63$:
                00000000G  EF   9F 01865 64$:   PUSHAB   SHIFT                                         ; 5479
                           04   DD 0186B        PUSHL    #4
                00000000G  EF   9F 0186D        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 01873        CALLS    #3,PAS$WRITE_STRING
                FFFF745C   EF   9F 0187A        PUSHAB   C.ARO
                           1F   DD 01880        PUSHL    #31
                00000000G  EF   9F 01882        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 01888        CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 0188F        PUSHAB   ANSI_REVERSE
                           04   DD 01895        PUSHL    #4
                00000000G  EF   9F 01897        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 0189D        CALLS    #3,PAS$WRITE_STRING
                FFFF7452   EF   9F 018A4        PUSHAB   C.ARP
                           03   DD 018AA        PUSHL    #3
                00000000G  EF   9F 018AC        PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 018B2        CALLS    #3,PAS$WRITE_STRING
```

```
                00000000G EF    9F 018B9          PUSHAB  ANSI_RESET
                          04    DD 018BF          PUSHL   #4
                00000000G EF    9F 018C1          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 018C7          CALLS   #3,PAS$WRITE_STRING
                FFFF742C  EF    9F 018CE          PUSHAB  C.ARQ
                          03    DD 018D4          PUSHL   #3
                00000000G EF    9F 018D6          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 018DC          CALLS   #3,PAS$WRITE_STRING
                00000000  8F    DF 018E3          PUSHAL  #0                                     ; 5481
                      00  8F    9F 018E9          PUSHAB  #0
          F4 AD 00000000G EF    9E 018EC          MOVAB   EDF$AB_FILE_TABLE_STA,-12(FP)
                      F4  AD    9F 018F4          PUSHAB  -12(FP)
          F0 AD 00000000G EF    9E 018F7          MOVAB   EDF$AB_FILE_TABLE_KEY,-16(FP)
                      F0  AD    9F 018FF          PUSHAB  -16(FP)
   00000000G EF           04    FB 01902          CALLS   #4,PARSE_INPUT
                       0000V    31 01909          BRW     126$
03 00000000G EF           00    E0 0190C 65$:     BBS     #0,FULL_CHOICE,.+3                     ; 5494
                       0000V    31 01914          BRW     71$
                00000000  8F    DF 01917          PUSHAL  #0                                     ; 5498
   00000000G EF           01    FB 0191D          CALLS   #1,CLEAR
00V00000000G EF           00    E0 01924          BBS     #0,FULL_PROMPT,68$                     ; 5500
03 00000000G EF           00    E0 0192C          BBS     #0,TEMP_FULL_PROMPT,.+3
                       0000V    31 01934          BRW     69$
                00000000G EF    9F 01937 68$:     PUSHAB  SHIFT                                  ; 5504
                          04    DD 0193D          PUSHL   #4
                00000000G EF    9F 0193F          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 01945          CALLS   #3,PAS$WRITE_STRING
                FFFF73B2  EF    9F 0194C          PUSHAB  C.ARR
                          02    DD 01952          PUSHL   #2
                00000000G EF    9F 01954          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 0195A          CALLS   #3,PAS$WRITE_STRING
                00000000G EF    9F 01961          PUSHAB  ANSI_REVERSE
                          04    DD 01967          PUSHL   #4
                00000000G EF    9F 01969          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 0196F          CALLS   #3,PAS$WRITE_STRING
                FFFF738C  EF    9F 01976          PUSHAB  C.ARS
                          0E    DD 0197C          PUSHL   #14
                00000000G EF    9F 0197E          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 01984          CALLS   #3,PAS$WRITE_STRING
                00000000G EF    9F 0198B          PUSHAB  SEC_ATTR
                          16    DD 01991          PUSHL   #22
                00000000G EF    9F 01993          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 01999          CALLS   #3,PAS$WRITE_STRING
                00000000G EF    9F 019A0          PUSHAB  ANSI_RESET
                          04    DD 019A6          PUSHL   #4
                00000000G EF    9F 019A8          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 019AE          CALLS   #3,PAS$WRITE_STRING
                00000000G EF    9F 019B5          PUSHAB  CRLF
                          02    DD 019BB          PUSHL   #2
                00000000G EF    9F 019BD          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 019C3          CALLS   #3,PAS$WRITE_STRING
                00000000G EF    9F 019CA          PUSHAB  CRLF_SHIFT
                          06    DD 019D0          PUSHL   #6
                00000000G EF    9F 019D2          PUSHAB  PAS$FV_OUTPUT
   00000000G EF           03    FB 019D8          CALLS   #3,PAS$WRITE_STRING
                FFFF7333  EF    9F 019DF          PUSHAB  C.ART
                          13    DD 019E5          PUSHL   #19
                      00000000G  EF  9F 019E7          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 019ED          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 019F4          PUSHAB  CRLF_SHIFT
                                 06  DD 019FA          PUSHL   #6
                      00000000G  EF  9F 019FC          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A02          CALLS   #3,PAS$WRITE_STRING
                      FFFF731D   EF  9F 01A09          PUSHAB  C.ARU
                                 12  DD 01A0F          PUSHL   #18
                      00000000G  EF  9F 01A11          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A17          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01A1E          PUSHAB  CRLF_SHIFT
                                 06  DD 01A24          PUSHL   #6
                      00000000G  EF  9F 01A26          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A2C          CALLS   #3,PAS$WRITE_STRING
                      FFFF7307   EF  9F 01A33          PUSHAB  C.ARV
                                 13  DD 01A39          PUSHL   #19
                      00000000G  EF  9F 01A3B          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A41          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01A48          PUSHAB  CRLF_SHIFT
                                 06  DD 01A4E          PUSHL   #6
                      00000000G  EF  9F 01A50          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A56          CALLS   #3,PAS$WRITE_STRING
                      FFFF72F1   EF  9F 01A5D          PUSHAB  C.ARW
                                 12  DD 01A63          PUSHL   #18
                      00000000G  EF  9F 01A65          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A6B          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01A72          PUSHAB  CRLF_SHIFT
                                 06  DD 01A78          PUSHL   #6
                      00000000G  EF  9F 01A7A          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A80          CALLS   #3,PAS$WRITE_STRING
                      FFFF72DB   EF  9F 01A87          PUSHAB  C.ARX
                                 14  DD 01A8D          PUSHL   #20
                      00000000G  EF  9F 01A8F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01A95          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01A9C          PUSHAB  CRLF_SHIFT
                                 06  DD 01AA2          PUSHL   #6
                      00000000G  EF  9F 01AA4          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01AAA          CALLS   #3,PAS$WRITE_STRING
                      FFFF72C5   EF  9F 01AB1          PUSHAB  C.ARY
                                 13  DD 01AB7          PUSHL   #19
                      00000000G  EF  9F 01AB9          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01ABF          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01AC6          PUSHAB  CRLF_SHIFT
                                 06  DD 01ACC          PUSHL   #6
                      00000000G  EF  9F 01ACE          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01AD4          CALLS   #3,PAS$WRITE_STRING
                      FFFF72AF   EF  9F 01ADB          PUSHAB  C.ARZ
                                 16  DD 01AE1          PUSHL   #22
                      00000000G  EF  9F 01AE3          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01AE9          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01AF0          PUSHAB  CRLF
                                 02  DD 01AF6          PUSHL   #2
                      00000000G  EF  9F 01AF8          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         03  FB 01AFE          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF  9F 01B05          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF         01  FB 01B0B          CALLS   #1,PAS$WRITELN2
                              0000V  31 01B12          BRW     76$
```

```
                  00000000G  EF    9F 01B15 69$:    PUSHAB  SHIFT                                        ; 5529
                             04    DD 01B1B         PUSHL   #4
                  00000000G  EF    9F 01B1D         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01B23         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01B2A         PUSHAB  QUES_HINT
                             1F    DD 01B30         PUSHL   #31
                  00000000G  EF    9F 01B32         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01B38         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01B3F         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01    FB 01B45         CALLS   #1,PAS$WRITELN2
                          0000V    31 01B4C         BRW     76$
                  00000000   8F    DF 01B4F 71$:    PUSHAL  #0                                           ; 5539
   00000000G  EF             01    FB 01B55         CALLS   #1,CLEAR
00V00000000G  EF             00    E0 01B5C         BBS     #0,FULL_PROMPT,73$                           ; 5541
03 00000000G  EF             00    E0 01B64         BBS     #0,TEMP_FULL_PROMPT,.+3
                          0000V    31 01B6C         BRW     74$
                  00000000G  EF    9F 01B6F 73$:    PUSHAB  SHIFT                                        ; 5545
                             04    DD 01B75         PUSHL   #4
                  00000000G  EF    9F 01B77         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01B7D         CALLS   #3,PAS$WRITE_STRING
                  FFFF721C   EF    9F 01B84         PUSHAB  C.ASA
                             02    DD 01B8A         PUSHL   #2
                  00000000G  EF    9F 01B8C         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01B92         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01B99         PUSHAB  ANSI_REVERSE
                             04    DD 01B9F         PUSHL   #4
                  00000000G  EF    9F 01BA1         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01BA7         CALLS   #3,PAS$WRITE_STRING
                  FFFF71F4   EF    9F 01BAE         PUSHAB  C.ASB
                             10    DD 01BB4         PUSHL   #16
                  00000000G  EF    9F 01BB6         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01BBC         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01BC3         PUSHAB  SEC_ATTR
                             16    DD 01BC9         PUSHL   #22
                  00000000G  EF    9F 01BCB         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01BD1         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01BD8         PUSHAB  ANSI_RESET
                             04    DD 01BDE         PUSHL   #4
                  00000000G  EF    9F 01BE0         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01BE6         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01BED         PUSHAB  CRLF
                             02    DD 01BF3         PUSHL   #2
                  00000000G  EF    9F 01BF5         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03    FB 01BFB         CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01C02         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01    FB 01C08         CALLS   #1,PAS$WRITELN2
                  000000FC   8F    DD 01C0F         PUSHL   #252                                         ; 5552
                             07    DD 01C15         PUSHL   #7
                             04    DD 01C17         PUSHL   #4
                  00000000G  EF    9F 01C19         PUSHAB  SYS$OUTPUT_NAME
                             0B    DD 01C1F         PUSHL   #11
                             01    DD 01C21         PUSHL   #1
                  00000000G  EF    9F 01C23         PUSHAB  FDL_DEST
   00000000G  EF             07    FB 01C29         CALLS   #7,PAS$OPEN2
                  00000000G  EF    9F 01C30         PUSHAB  FDL_DEST                                     ; 5554
   00000000G  EF             01    FB 01C36         CALLS   #1,PAS$REWRITE2
                  00000000G  EF    9F 01C3D         PUSHAB  TEST                                         ; 5556
   00000000G  EF              01  FB 01C43         CALLS   #1,SHOW_PRIMARY_SECTION
                 00000000G    EF  9F 01C4A         PUSHAB  FDL_DEST                                 ; 5558
   00000000G  EF              01  FB 01C50         CALLS   #1,PAS$CLOSE2
                             00V  11 01C57         BRB     76$
                 00000000G    EF  9F 01C59 74$:    PUSHAB  SHIFT                                    ; 5564
                              04  DD 01C5F         PUSHL   #4
                 00000000G    EF  9F 01C61         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01C67         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 01C6E         PUSHAB  QUES_HINT
                              1F  DD 01C74         PUSHL   #31
                 00000000G    EF  9F 01C76         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01C7C         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 01C83         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              01  FB 01C89         CALLS   #1,PAS$WRITELN2
                 00000000G    EF  9F 01C90 76$:    PUSHAB  SHIFT                                    ; 5568
                              04  DD 01C96         PUSHL   #4
                 00000000G    EF  9F 01C98         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01C9E         CALLS   #3,PAS$WRITE_STRING
                 FFFF710D     EF  9F 01CA5         PUSHAB  C.ASC
                              22  DD 01CAB         PUSHL   #34
                 00000000G    EF  9F 01CAD         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01CB3         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 01CBA         PUSHAB  ANSI_REVERSE
                              04  DD 01CC0         PUSHL   #4
                 00000000G    EF  9F 01CC2         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01CC8         CALLS   #3,PAS$WRITE_STRING
                 FFFF7107     EF  9F 01CCF         PUSHAB  C.ASD
                              03  DD 01CD5         PUSHL   #3
                 00000000G    EF  9F 01CD7         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01CDD         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 01CE4         PUSHAB  ANSI_RESET
                              04  DD 01CEA         PUSHL   #4
                 00000000G    EF  9F 01CEC         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01CF2         CALLS   #3,PAS$WRITE_STRING
                 FFFF70E1     EF  9F 01CF9         PUSHAB  C.ASE
                              03  DD 01CFF         PUSHL   #3
                 00000000G    EF  9F 01D01         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01D07         CALLS   #3,PAS$WRITE_STRING
                 00000000     8F  DF 01D0E         PUSHAL  #0                                       ; 5570
                        00    8F  9F 01D14         PUSHAB  #0
          F4  AD 00000000G    EF  9E 01D17         MOVAB   EDF$AB_JOURNAL_TABLE_STA,-12(FP)
                        F4    AD  9F 01D1F         PUSHAB  -12(FP)
          F0  AD 00000000G    EF  9E 01D22         MOVAB   EDF$AB_JOURNAL_TABLE_KEY,-16(FP)
                        F0    AD  9F 01D2A         PUSHAB  -16(FP)
   00000000G  EF              04  FB 01D2D         CALLS   #4,PARSE_INPUT
                           0000V  31 01D34         BRW     126$
03 00000000G  EF              00  E0 01D37 77$:    BBS     #0,FULL_CHOICE,.+3                       ; 5583
                           0000V  31 01D3F         BRW     83$
                 00000000     8F  DF 01D42         PUSHAL  #0                                       ; 5587
   00000000G  EF              01  FB 01D48         CALLS   #1,CLEAR
00V00000000G  EF              00  E0 01D4F         BBS     #0,FULL_PROMPT,80$                       ; 5589
03 00000000G  EF              00  E0 01D57         BBS     #0,TEMP_FULL_PROMPT,.+3
                           0000V  31 01D5F         BRW     81$
                 00000000G    EF  9F 01D62 80$:    PUSHAB  SHIFT                                    ; 5593
                              04  DD 01D68         PUSHL   #4
                 00000000G    EF  9F 01D6A         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 01D70         CALLS   #3,PAS$WRITE_STRING
```

```
                      FFFF7067   EF   9F 01D77        PUSHAB  C.ASF
                                 02   DD 01D7D        PUSHL   #2
                      00000000G  EF   9F 01D7F        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01D85        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01D8C        PUSHAB  ANSI_REVERSE
                                 04   DD 01D92        PUSHL   #4
                      00000000G  EF   9F 01D94        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01D9A        CALLS   #3,PAS$WRITE_STRING
                      FFFF7041   EF   9F 01DA1        PUSHAB  C.ASG
                                 0A   DD 01DA7        PUSHL   #10
                      00000000G  EF   9F 01DA9        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01DAF        CALLS   #3,PAS$WRITE_STRING
                                 03   DD 01DB6        PUSHL   #3
                      00000084G  EF   DD 01DB8        PUSHL   IDATA+132
                      00000000G  EF   9F 01DBE        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01DC4        CALLS   #3,PAS$WRITE_INTEGER
                      00000000G  EF   9F 01DCB        PUSHAB  SEC_ATTR
                                 16   DD 01DD1        PUSHL   #22
                      00000000G  EF   9F 01DD3        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01DD9        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01DE0        PUSHAB  ANSI_RESET
                                 04   DD 01DE6        PUSHL   #4
                      00000000G  EF   9F 01DE8        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01DEE        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01DF5        PUSHAB  CRLF
                                 02   DD 01DFB        PUSHL   #2
                      00000000G  EF   9F 01DFD        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E03        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01E0A        PUSHAB  CRLF_SHIFT
                                 06   DD 01E10        PUSHL   #6
                      00000000G  EF   9F 01E12        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E18        CALLS   #3,PAS$WRITE_STRING
                      FFFF6FCF   EF   9F 01E1F        PUSHAB  C.ASH
                                 29   DD 01E25        PUSHL   #41
                      00000000G  EF   9F 01E27        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E2D        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01E34        PUSHAB  CRLF_SHIFT
                                 06   DD 01E3A        PUSHL   #6
                      00000000G  EF   9F 01E3C        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E42        CALLS   #3,PAS$WRITE_STRING
                      FFFF6FD1   EF   9F 01E49        PUSHAB  C.ASI
                                 1F   DD 01E4F        PUSHL   #31
                      00000000G  EF   9F 01E51        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E57        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01E5E        PUSHAB  CRLF_SHIFT
                                 06   DD 01E64        PUSHL   #6
                      00000000G  EF   9F 01E66        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E6C        CALLS   #3,PAS$WRITE_STRING
                      FFFF6FC7   EF   9F 01E73        PUSHAB  C.ASJ
                                 22   DD 01E79        PUSHL   #34
                      00000000G  EF   9F 01E7B        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E81        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 01E88        PUSHAB  CRLF_SHIFT
                                 06   DD 01E8E        PUSHL   #6
                      00000000G  EF   9F 01E90        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 01E96        CALLS   #3,PAS$WRITE_STRING
                      FFFF6FC1   EF   9F 01E9D        PUSHAB  C.ASK
```

```
                            30  DD 01EA3         PUSHL   #48
                 00000000G  EF  9F 01EA5         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01EAB         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01EB2         PUSHAB  CRLF_SHIFT
                            06  DD 01EB8         PUSHL   #6
                 00000000G  EF  9F 01EBA         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01EC0         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FC7   EF  9F 01EC7         PUSHAB  C.ASL
                            2F  DD 01ECD         PUSHL   #47
                 00000000G  EF  9F 01ECF         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01ED5         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01EDC         PUSHAB  CRLF_SHIFT
                            06  DD 01EE2         PUSHL   #6
                 00000000G  EF  9F 01EE4         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01EEA         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FCD   EF  9F 01EF1         PUSHAB  C.ASM
                            22  DD 01EF7         PUSHL   #34
                 00000000G  EF  9F 01EF9         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01EFF         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01F06         PUSHAB  CRLF_SHIFT
                            06  DD 01F0C         PUSHL   #6
                 00000000G  EF  9F 01F0E         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F14         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FC7   EF  9F 01F1B         PUSHAB  C.ASN
                            21  DD 01F21         PUSHL   #33
                 00000000G  EF  9F 01F23         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F29         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01F30         PUSHAB  CRLF_SHIFT
                            06  DD 01F36         PUSHL   #6
                 00000000G  EF  9F 01F38         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F3E         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FC1   EF  9F 01F45         PUSHAB  C.ASO
                            2C  DD 01F4B         PUSHL   #44
                 00000000G  EF  9F 01F4D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F53         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01F5A         PUSHAB  CRLF_SHIFT
                            06  DD 01F60         PUSHL   #6
                 00000000G  EF  9F 01F62         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F68         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FC3   EF  9F 01F6F         PUSHAB  C.ASP
                            28  DD 01F75         PUSHL   #40
                 00000000G  EF  9F 01F77         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F7D         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01F84         PUSHAB  CRLF_SHIFT
                            06  DD 01F8A         PUSHL   #6
                 00000000G  EF  9F 01F8C         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01F92         CALLS   #3,PAS$WRITE_STRING
                 FFFF6FC1   EF  9F 01F99         PUSHAB  C.ASQ
                            0F  DD 01F9F         PUSHL   #15
                 00000000G  EF  9F 01FA1         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01FA7         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01FAE         PUSHAB  CRLF
                            02  DD 01FB4         PUSHL   #2
                 00000000G  EF  9F 01FB6         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 01FBC         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 01FC3         PUSHAB  PAS$FV_OUTPUT
00000000G  EF               01  FB 01FC9         CALLS   #1,PAS$WRITELN2
```

```
                                       00V  11 01FD0        BRB     82$
                           00000000G   EF   9F 01FD2 81$:   PUSHAB  SHIFT                                 ; 5624
                                       04   DD 01FD8        PUSHL   #4
                           00000000G   EF   9F 01FDA        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 01FE0        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 01FE7        PUSHAB  QUES_HINT
                                       1F   DD 01FED        PUSHL   #31
                           00000000G   EF   9F 01FEF        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 01FF5        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 01FFC        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            01   FB 02002        CALLS   #1,PAS$WRITELN2
                                     0000V  31 02009 82$:   BRW     88$
                           00000000    8F   DF 0200C 83$:   PUSHAL  #0                                    ; 5632
              00000000G  EF            01   FB 02012        CALLS   #1,CLEAR
           00V00000000G  EF            00   E0 02019        BBS     #0,FULL_PROMPT,85$                    ; 5634
           03 00000000G  EF            00   E0 02021        BBS     #0,TEMP_FULL_PROMPT,.+3
                                     0000V  31 02029        BRW     86$
                           00000000G   EF   9F 0202C 85$:   PUSHAB  SHIFT                                 ; 5638
                                       04   DD 02032        PUSHL   #4
                           00000000G   EF   9F 02034        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 0203A        CALLS   #3,PAS$WRITE_STRING
                           FFFF6F29    EF   9F 02041        PUSHAB  C.ASR
                                       02   DD 02047        PUSHL   #2
                           00000000G   EF   9F 02049        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 0204F        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 02056        PUSHAB  ANSI_REVERSE
                                       04   DD 0205C        PUSHL   #4
                           00000000G   EF   9F 0205E        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 02064        CALLS   #3,PAS$WRITE_STRING
                           FFFF6F03    EF   9F 0206B        PUSHAB  C.ASS
                                       0C   DD 02071        PUSHL   #12
                           00000000G   EF   9F 02073        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 02079        CALLS   #3,PAS$WRITE_STRING
                                       03   DD 02080        PUSHL   #3
                           00000084G   EF   DD 02082        PUSHL   IDATA+132
                           00000000G   EF   9F 02088        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 0208E        CALLS   #3,PAS$WRITE_INTEGER
                           00000000G   EF   9F 02095        PUSHAB  SEC_ATTR
                                       16   DD 0209B        PUSHL   #22
                           00000000G   EF   9F 0209D        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 020A3        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 020AA        PUSHAB  ANSI_RESET
                                       04   DD 020B0        PUSHL   #4
                           00000000G   EF   9F 020B2        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 020B8        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 020BF        PUSHAB  CRLF
                                       02   DD 020C5        PUSHL   #2
                           00000000G   EF   9F 020C7        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            03   FB 020CD        CALLS   #3,PAS$WRITE_STRING
                           00000000G   EF   9F 020D4        PUSHAB  PAS$FV_OUTPUT
              00000000G  EF            01   FB 020DA        CALLS   #1,PAS$WRITELN2
                           000000FC    8F   DD 020E1        PUSHL   #252                                  ; 5647
                                       07   DD 020E7        PUSHL   #7
                                       04   DD 020E9        PUSHL   #4
                           00000000G   EF   9F 020EB        PUSHAB  SYS$OUTPUT_NAME
                                       0B   DD 020F1        PUSHL   #11
                                       01   DD 020F3        PUSHL   #1
```

```
                    00000000G  EF  9F 020F5          PUSHAB  FDL_DEST
   00000000G  EF               07  FB 020FB          CALLS   #7,PAS$OPEN2
                    00000000G  EF  9F 02102          PUSHAB  FDL_DEST                                        ; 5649
   00000000G  EF               01  FB 02108          CALLS   #1,PAS$REWRITE2
                    00000000G  EF  9F 0210F          PUSHAB  TEST                                            ; 5651
   00000000G  EF               01  FB 02115          CALLS   #1,SHOW_PRIMARY_SECTION
                    00000000G  EF  9F 0211C          PUSHAB  FDL_DEST                                        ; 5653
   00000000G  EF               01  FB 02122          CALLS   #1,PAS$CLOSE2
                              00V  11 02129          BRB     88$
                    00000000G  EF  9F 0212B 86$:     PUSHAB  SHIFT                                           ; 5659
                               04  DD 02131          PUSHL   #4
                    00000000G  EF  9F 02133          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 02139          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 02140          PUSHAB  QUES_HINT
                               1F  DD 02146          PUSHL   #31
                    00000000G  EF  9F 02148          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0214E          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 02155          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               01  FB 0215B          CALLS   #1,PAS$WRITELN2
                    00000000G  EF  9F 02162 88$:     PUSHAB  SHIFT                                           ; 5663
                               04  DD 02168          PUSHL   #4
                    00000000G  EF  9F 0216A          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 02170          CALLS   #3,PAS$WRITE_STRING
                    FFFF6E03   EF  9F 02177          PUSHAB  C.AST
                               09  DD 0217D          PUSHL   #9
                    00000000G  EF  9F 0217F          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 02185          CALLS   #3,PAS$WRITE_STRING
                               03  DD 0218C          PUSHL   #3
                    00000084G  EF  DD 0218E          PUSHL   IDATA+132
                    00000000G  EF  9F 02194          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0219A          CALLS   #3,PAS$WRITE_INTEGER
                    FFFF6DE5   EF  9F 021A1          PUSHAB  C.ASU
                               15  DD 021A7          PUSHL   #21
                    00000000G  EF  9F 021A9          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 021AF          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 021B6          PUSHAB  ANSI_REVERSE
                               04  DD 021BC          PUSHL   #4
                    00000000G  EF  9F 021BE          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 021C4          CALLS   #3,PAS$WRITE_STRING
                    FFFF6DD3   EF  9F 021CB          PUSHAB  C.ASV
                               03  DD 021D1          PUSHL   #3
                    00000000G  EF  9F 021D3          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 021D9          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 021E0          PUSHAB  ANSI_RESET
                               04  DD 021E6          PUSHL   #4
                    00000000G  EF  9F 021E8          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 021EE          CALLS   #3,PAS$WRITE_STRING
                    FFFF6DAD   EF  9F 021F5          PUSHAB  C.ASW
                               03  DD 021FB          PUSHL   #3
                    00000000G  EF  9F 021FD          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 02203          CALLS   #3,PAS$WRITE_STRING
                    00000000   8F  DF 0220A          PUSHAL  #0                                              ; 5667
                           00  8F  9F 02210          PUSHAB  #0
          F4  AD    00000000G  EF  9E 02213          MOVAB   EDF$AB_KEY_TABLE_STA,-12(FP)
                           F4  AD  9F 0221B          PUSHAB  -12(FP)
          F0  AD    00000000G  EF  9E 0221E          MOVAB   EDF$AB_KEY_TABLE_KEY,-16(FP)
                           F0  AD  9F 02226          PUSHAB  -16(FP)
```

```
    00000000G  EF              04  FB 02229        CALLS   #4,PARSE_INPUT
                            0000V  31 02230        BRW     126$
 03 00000000G  EF              00  E0 02233 89$:   BBS     #0,FULL_CHOICE,.+3          ; 5680
                            0000V  31 0223B        BRW     95$
                 00000000      8F  DF 0223E        PUSHAL  #0                          ; 5684
    00000000G  EF              01  FB 02244        CALLS   #1,CLEAR
00V00000000G   EF              00  E0 0224B        BBS     #0,FULL_PROMPT,92$          ; 5686
 03 00000000G  EF              00  E0 02253        BBS     #0,TEMP_FULL_PROMPT,.+3
                            0000V  31 0225B        BRW     93$
                 00000000G     EF  9F 0225E 92$:   PUSHAB  SHIFT                       ; 5690
                               04  DD 02264        PUSHL   #4
                 00000000G     EF  9F 02266        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 0226C        CALLS   #3,PAS$WRITE_STRING
                 FFFF6D33      EF  9F 02273        PUSHAB  C.ASX
                               02  DD 02279        PUSHL   #2
                 00000000G     EF  9F 0227B        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 02281        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 02288        PUSHAB  ANSI_REVERSE
                               04  DD 0228E        PUSHL   #4
                 00000000G     EF  9F 02290        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 02296        CALLS   #3,PAS$WRITE_STRING
                 FFFF6D0D      EF  9F 0229D        PUSHAB  C.ASY
                               0D  DD 022A3        PUSHL   #13
                 00000000G     EF  9F 022A5        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 022AB        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 022B2        PUSHAB  SEC_ATTR
                               16  DD 022B8        PUSHL   #22
                 00000000G     EF  9F 022BA        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 022C0        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 022C7        PUSHAB  ANSI_RESET
                               04  DD 022CD        PUSHL   #4
                 00000000G     EF  9F 022CF        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 022D5        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 022DC        PUSHAB  CRLF
                               02  DD 022E2        PUSHL   #2
                 00000000G     EF  9F 022E4        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 022EA        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 022F1        PUSHAB  CRLF_SHIFT
                               06  DD 022F7        PUSHL   #6
                 00000000G     EF  9F 022F9        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 022FF        CALLS   #3,PAS$WRITE_STRING
                 FFFF6CB4      EF  9F 02306        PUSHAB  C.ASZ
                               12  DD 0230C        PUSHL   #18
                 00000000G     EF  9F 0230E        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 02314        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 0231B        PUSHAB  CRLF_SHIFT
                               06  DD 02321        PUSHL   #6
                 00000000G     EF  9F 02323        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 02329        CALLS   #3,PAS$WRITE_STRING
                 FFFF6C9E      EF  9F 02330        PUSHAB  C.ATA
                               18  DD 02336        PUSHL   #24
                 00000000G     EF  9F 02338        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 0233E        CALLS   #3,PAS$WRITE_STRING
                 00000000G     EF  9F 02345        PUSHAB  CRLF_SHIFT
                               06  DD 0234B        PUSHL   #6
                 00000000G     EF  9F 0234D        PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03  FB 02353        CALLS   #3,PAS$WRITE_STRING
```

```
                      FFFF6C8C  EF   9F 0235A          PUSHAB  C.ATB
                                19   DD 02360          PUSHL   #25
                      00000000G EF   9F 02362          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 02368          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 0236F          PUSHAB  CRLF_SHIFT
                                06   DD 02375          PUSHL   #6
                      00000000G EF   9F 02377          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 0237D          CALLS   #3,PAS$WRITE_STRING
                      FFFF6C7E  EF   9F 02384          PUSHAB  C.ATC
                                10   DD 0238A          PUSHL   #16
                      00000000G EF   9F 0238C          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 02392          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 02399          PUSHAB  CRLF_SHIFT
                                06   DD 0239F          PUSHL   #6
                      00000000G EF   9F 023A1          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 023A7          CALLS   #3,PAS$WRITE_STRING
                      FFFF6C64  EF   9F 023AE          PUSHAB  C.ATD
                                0D   DD 023B4          PUSHL   #13
                      00000000G EF   9F 023B6          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 023BC          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 023C3          PUSHAB  CRLF
                                02   DD 023C9          PUSHL   #2
                      00000000G EF   9F 023CB          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 023D1          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 023D8          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             01   FB 023DE          CALLS   #1,PAS$WRITELN2
                             0000V   31 023E5          BRW     100$
                      00000000G EF   9F 023E8 93$:     PUSHAB  SHIFT                                  ; 5711
                                04   DD 023EE          PUSHL   #4
                      00000000G EF   9F 023F0          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 023F6          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 023FD          PUSHAB  QUES_HINT
                                1F   DD 02403          PUSHL   #31
                      00000000G EF   9F 02405          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 0240B          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 02412          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             01   FB 02418          CALLS   #1,PAS$WRITELN2
                             0000V   31 0241F          BRW     100$
                      00000000  8F   DF 02422 95$:     PUSHAL  #0                                     ; 5721
      00000000G  EF             01   FB 02428          CALLS   #1,CLEAR
   00V00000000G  EF             00   E0 0242F          BBS     #0,FULL_PROMPT,97$                     ; 5723
   03 00000000G  EF             00   E0 02437          BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 0243F          BRW     98$
                      00000000G EF   9F 02442 97$:     PUSHAB  SHIFT                                  ; 5727
                                04   DD 02448          PUSHL   #4
                      00000000G EF   9F 0244A          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 02450          CALLS   #3,PAS$WRITE_STRING
                      FFFF6BC9  EF   9F 02457          PUSHAB  C.ATE
                                02   DD 0245D          PUSHL   #2
                      00000000G EF   9F 0245F          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 02465          CALLS   #3,PAS$WRITE_STRING
                      00000000G EF   9F 0246C          PUSHAB  ANSI_REVERSE
                                04   DD 02472          PUSHL   #4
                      00000000G EF   9F 02474          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF             03   FB 0247A          CALLS   #3,PAS$WRITE_STRING
                      FFFF6BA1  EF   9F 02481          PUSHAB  C.ATF
                                0F   DD 02487          PUSHL   #15
```

```
                       00000000G  EF    9F 02489          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 0248F          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 02496          PUSHAB  SEC_ATTR
                                  16    DD 0249C          PUSHL   #22
                       00000000G  EF    9F 0249E          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 024A4          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 024AB          PUSHAB  ANSI_RESET
                                  04    DD 024B1          PUSHL   #4
                       00000000G  EF    9F 024B3          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 024B9          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 024C0          PUSHAB  CRLF
                                  02    DD 024C6          PUSHL   #2
                       00000000G  EF    9F 024C8          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 024CE          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 024D5          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              01    FB 024DB          CALLS   #1,PAS$WRITELN2
                       000000FC   8F    DD 024E2          PUSHL   #252                                  ; 5734
                                  07    DD 024E8          PUSHL   #7
                                  04    DD 024EA          PUSHL   #4
                       00000000G  EF    9F 024EC          PUSHAB  SYS$OUTPUT_NAME
                                  0B    DD 024F2          PUSHL   #11
                                  01    DD 024F4          PUSHL   #1
                       00000000G  EF    9F 024F6          PUSHAB  FDL_DEST
       00000000G  EF              07    FB 024FC          CALLS   #7,PAS$OPEN2
                       00000000G  EF    9F 02503          PUSHAB  FDL_DEST                              ; 5736
       00000000G  EF              01    FB 02509          CALLS   #1,PAS$REWRITE2
                       00000000G  EF    9F 02510          PUSHAB  TEST                                  ; 5738
       00000000G  EF              01    FB 02516          CALLS   #1,SHOW_PRIMARY_SECTION
                       00000000G  EF    9F 0251D          PUSHAB  FDL_DEST                              ; 5740
       00000000G  EF              01    FB 02523          CALLS   #1,PAS$CLOSE2
                                  00V   11 0252A          BRB     100$
                       00000000G  EF    9F 0252C  98$:    PUSHAB  SHIFT                                 ; 5746
                                  04    DD 02532          PUSHL   #4
                       00000000G  EF    9F 02534          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 0253A          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 02541          PUSHAB  QUES_HINT
                                  1F    DD 02547          PUSHL   #31
                       00000000G  EF    9F 02549          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 0254F          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 02556          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              01    FB 0255C          CALLS   #1,PAS$WRITELN2
                       00000000G  EF    9F 02563  100$:   PUSHAB  SHIFT                                 ; 5750
                                  04    DD 02569          PUSHL   #4
                       00000000G  EF    9F 0256B          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02571          CALLS   #3,PAS$WRITE_STRING
                       FFFF6ABA   EF    9F 02578          PUSHAB  C.ATG
                                  21    DD 0257E          PUSHL   #33
                       00000000G  EF    9F 02580          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02586          CALLS   #3,PAS$WRITE_STRING
                       00000000G  EF    9F 0258D          PUSHAB  ANSI_REVERSE
                                  04    DD 02593          PUSHL   #4
                       00000000G  EF    9F 02595          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 0259B          CALLS   #3,PAS$WRITE_STRING
                       FFFF6AB4   EF    9F 025A2          PUSHAB  C.ATH
                                  03    DD 025A8          PUSHL   #3
                       00000000G  EF    9F 025AA          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 025B0          CALLS   #3,PAS$WRITE_STRING
```

```
                     00000000G   EF    9F 025B7         PUSHAB  ANSI_RESET
                                 04    DD 025BD         PUSHL   #4
                     00000000G   EF    9F 025BF         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 025C5         CALLS   #3,PAS$WRITE_STRING
                     FFFF6A8E    EF    9F 025CC         PUSHAB  C.ATI
                                 03    DD 025D2         PUSHL   #3
                     00000000G   EF    9F 025D4         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 025DA         CALLS   #3,PAS$WRITE_STRING
                     00000000    8F    DF 025E1         PUSHAL  #0                                              ; 5752
                           00    8F    9F 025E7         PUSHAB  #0
              F4  AD 00000000G   EF    9E 025EA         MOVAB   EDF$AB_RECORD_TABLE_STA,-12(FP)
                           F4    AD    9F 025F2         PUSHAB  -12(FP)
              F0  AD 00000000G   EF    9E 025F5         MOVAB   EDF$AB_RECORD_TABLE_KEY,-16(FP)
                           F0    AD    9F 025FD         PUSHAB  -16(FP)
       00000000G  EF             04    FB 02600         CALLS   #4,PARSE_INPUT
                              0000V    31 02607         BRW     126$
    03 00000000G  EF             00    E0 0260A 101$:   BBS     #0,FULL_CHOICE,.+3                              ; 5765
                              0000V    31 02612         BRW     107$
                     00000000    8F    DF 02615         PUSHAL  #0                                              ; 5769
       00000000G  EF             01    FB 0261B         CALLS   #1,CLEAR
    00V00000000G  EF             00    E0 02622         BBS     #0,FULL_PROMPT,104$                             ; 5771
    03 00000000G  EF             00    E0 0262A         BBS     #0,TEMP_FULL_PROMPT,.+3
                              0000V    31 02632         BRW     105$
                     00000000G   EF    9F 02635 104$:   PUSHAB  SHIFT                                           ; 5775
                                 04    DD 0263B         PUSHL   #4
                     00000000G   EF    9F 0263D         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 02643         CALLS   #3,PAS$WRITE_STRING
                     FFFF6A14    EF    9F 0264A         PUSHAB  C.ATJ
                                 02    DD 02650         PUSHL   #2
                     00000000G   EF    9F 02652         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 02658         CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF    9F 0265F         PUSHAB  ANSI_REVERSE
                                 04    DD 02665         PUSHL   #4
                     00000000G   EF    9F 02667         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 0266D         CALLS   #3,PAS$WRITE_STRING
                     FFFF69EE    EF    9F 02674         PUSHAB  C.ATK
                                 0E    DD 0267A         PUSHL   #14
                     00000000G   EF    9F 0267C         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 02682         CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF    9F 02689         PUSHAB  SEC_ATTR
                                 16    DD 0268F         PUSHL   #22
                     00000000G   EF    9F 02691         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 02697         CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF    9F 0269E         PUSHAB  ANSI_RESET
                                 04    DD 026A4         PUSHL   #4
                     00000000G   EF    9F 026A6         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 026AC         CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF    9F 026B3         PUSHAB  CRLF
                                 02    DD 026B9         PUSHL   #2
                     00000000G   EF    9F 026BB         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 026C1         CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF    9F 026C8         PUSHAB  CRLF_SHIFT
                                 06    DD 026CE         PUSHL   #6
                     00000000G   EF    9F 026D0         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF             03    FB 026D6         CALLS   #3,PAS$WRITE_STRING
                     FFFF6995    EF    9F 026DD         PUSHAB  C.ATL
                                 0F    DD 026E3         PUSHL   #15
```

```
               00000000G  EF  9F 026E5        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 026EB        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 026F2        PUSHAB  CRLF_SHIFT
                          06  DD 026F8        PUSHL   #6
               00000000G  EF  9F 026FA        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 02700        CALLS   #3,PAS$WRITE_STRING
                FFFF697B  EF  9F 02707        PUSHAB  C.ATM
                          0C  DD 0270D        PUSHL   #12
               00000000G  EF  9F 0270F        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 02715        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 0271C        PUSHAB  CRLF_SHIFT
                          06  DD 02722        PUSHL   #6
               00000000G  EF  9F 02724        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0272A        CALLS   #3,PAS$WRITE_STRING
                FFFF695D  EF  9F 02731        PUSHAB  C.ATN
                          13  DD 02737        PUSHL   #19
               00000000G  EF  9F 02739        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0273F        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 02746        PUSHAB  CRLF_SHIFT
                          06  DD 0274C        PUSHL   #6
               00000000G  EF  9F 0274E        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 02754        CALLS   #3,PAS$WRITE_STRING
                FFFF6947  EF  9F 0275B        PUSHAB  C.ATO
                          10  DD 02761        PUSHL   #16
               00000000G  EF  9F 02763        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 02769        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 02770        PUSHAB  CRLF_SHIFT
                          06  DD 02776        PUSHL   #6
               00000000G  EF  9F 02778        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0277E        CALLS   #3,PAS$WRITE_STRING
                FFFF692D  EF  9F 02785        PUSHAB  C.ATP
                          0C  DD 0278B        PUSHL   #12
               00000000G  EF  9F 0278D        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 02793        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 0279A        PUSHAB  CRLF_SHIFT
                          06  DD 027A0        PUSHL   #6
               00000000G  EF  9F 027A2        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 027A8        CALLS   #3,PAS$WRITE_STRING
                FFFF690F  EF  9F 027AF        PUSHAB  C.ATQ
                          0F  DD 027B5        PUSHL   #15
               00000000G  EF  9F 027B7        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 027BD        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 027C4        PUSHAB  CRLF_SHIFT
                          06  DD 027CA        PUSHL   #6
               00000000G  EF  9F 027CC        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 027D2        CALLS   #3,PAS$WRITE_STRING
                FFFF68F5  EF  9F 027D9        PUSHAB  C.ATR
                          16  DD 027DF        PUSHL   #22
               00000000G  EF  9F 027E1        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 027E7        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 027EE        PUSHAB  CRLF
                          02  DD 027F4        PUSHL   #2
               00000000G  EF  9F 027F6        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 027FC        CALLS   #3,PAS$WRITE_STRING
               00000000G  EF  9F 02803        PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01  FB 02809        CALLS   #1,PAS$WRITELN2
                       0000V  31 02810        BRW     112$
```

```
                        00000000G  EF    9F 02813 105$:   PUSHAB  SHIFT                                       ; 5798
                                   04    DD 02819         PUSHL   #4
                        00000000G  EF    9F 0281B         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 02821         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 02828         PUSHAB  QUES_HINT
                                   1F    DD 0282E         PUSHL   #31
                        00000000G  EF    9F 02830         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 02836         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 0283D         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               01    FB 02843         CALLS   #1,PAS$WRITELN2
                               0000V     31 0284A         BRW     112$
                        00000000   8F    DF 0284D 107$:   PUSHAL  #0                                          ; 5806
       00000000G  EF               01    FB 02853         CALLS   #1,CLEAR
    00V00000000G  EF               00    E0 0285A         BBS     #0,FULL_PROMPT,109$                         ; 5808
    03 00000000G  EF               00    E0 02862         BBS     #0,TEMP_FULL_PROMPT,.+3
                               0000V     31 0286A         BRW     110$
                        00000000G  EF    9F 0286D 109$:   PUSHAB  SHIFT                                       ; 5812
                                   04    DD 02873         PUSHL   #4
                        00000000G  EF    9F 02875         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 0287B         CALLS   #3,PAS$WRITE_STRING
                        FFFF6862   EF    9F 02882         PUSHAB  C.ATS
                                   02    DD 02888         PUSHL   #2
                        00000000G  EF    9F 0288A         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 02890         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 02897         PUSHAB  ANSI_REVERSE
                                   04    DD 0289D         PUSHL   #4
                        00000000G  EF    9F 0289F         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 028A5         CALLS   #3,PAS$WRITE_STRING
                        FFFF683A   EF    9F 028AC         PUSHAB  C.ATT
                                   10    DD 028B2         PUSHL   #16
                        00000000G  EF    9F 028B4         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 028BA         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 028C1         PUSHAB  SEC_ATTR
                                   16    DD 028C7         PUSHL   #22
                        00000000G  EF    9F 028C9         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 028CF         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 028D6         PUSHAB  ANSI_RESET
                                   04    DD 028DC         PUSHL   #4
                        00000000G  EF    9F 028DE         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 028E4         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 028EB         PUSHAB  CRLF
                                   02    DD 028F1         PUSHL   #2
                        00000000G  EF    9F 028F3         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               03    FB 028F9         CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF    9F 02900         PUSHAB  PAS$FV_OUTPUT
       00000000G  EF               01    FB 02906         CALLS   #1,PAS$WRITELN2
                        000000FC   8F    DD 0290D         PUSHL   #252                                        ; 5819
                                   07    DD 02913         PUSHL   #7
                                   04    DD 02915         PUSHL   #4
                        00000000G  EF    9F 02917         PUSHAB  SYS$OUTPUT_NAME
                                   0B    DD 0291D         PUSHL   #11
                                   01    DD 0291F         PUSHL   #1
                        00000000G  EF    9F 02921         PUSHAB  FDL_DEST
       00000000G  EF               07    FB 02927         CALLS   #7,PAS$OPEN2
                        00000000G  EF    9F 0292E         PUSHAB  FDL_DEST                                    ; 5821
       00000000G  EF               01    FB 02934         CALLS   #1,PAS$REWRITE2
                        00000000G  EF    9F 0293B         PUSHAB  TEST                                        ; 5823
```

```
   00000000G  EF              01  FB 02941          CALLS   #1,SHOW_PRIMARY_SECTION
                 00000000G    EF  9F 02948          PUSHAB  FDL_DEST                            ; 5825
   00000000G  EF              01  FB 0294E          CALLS   #1,PAS$CLOSE2
                             00V  11 02955          BRB     112$
                 00000000G    EF  9F 02957 110$:    PUSHAB  SHIFT                               ; 5831
                              04  DD 0295D          PUSHL   #4
                 00000000G    EF  9F 0295F          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 02965          CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 0296C          PUSHAB  QUES_HINT
                              1F  DD 02972          PUSHL   #31
                 00000000G    EF  9F 02974          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 0297A          CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 02981          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              01  FB 02987          CALLS   #1,PAS$WRITELN2
                 00000000G    EF  9F 0298E 112$:    PUSHAB  SHIFT                               ; 5835
                              04  DD 02994          PUSHL   #4
                 00000000G    EF  9F 02996          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 0299C          CALLS   #3,PAS$WRITE_STRING
                  FFFF6753    EF  9F 029A3          PUSHAB  C.ATU
                              22  DD 029A9          PUSHL   #34
                 00000000G    EF  9F 029AB          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 029B1          CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 029B8          PUSHAB  ANSI_REVERSE
                              04  DD 029BE          PUSHL   #4
                 00000000G    EF  9F 029C0          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 029C6          CALLS   #3,PAS$WRITE_STRING
                  FFFF674D    EF  9F 029CD          PUSHAB  C.ATV
                              03  DD 029D3          PUSHL   #3
                 00000000G    EF  9F 029D5          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 029DB          CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 029E2          PUSHAB  ANSI_RESET
                              04  DD 029E8          PUSHL   #4
                 00000000G    EF  9F 029EA          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 029F0          CALLS   #3,PAS$WRITE_STRING
                  FFFF6727    EF  9F 029F7          PUSHAB  C.ATW
                              03  DD 029FD          PUSHL   #3
                 00000000G    EF  9F 029FF          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 02A05          CALLS   #3,PAS$WRITE_STRING
                  00000000    8F  DF 02A0C          PUSHAL  #0                                  ; 5837
                        00    8F  9F 02A12          PUSHAB  #0
          F4  AD 00000000G    EF  9E 02A15          MOVAB   EDF$AB_SHARING_TABLE_STA,-12(FP)
                        F4    AD  9F 02A1D          PUSHAB  -12(FP)
          F0  AD 00000000G    EF  9E 02A20          MOVAB   EDF$AB_SHARING_TABLE_KEY,-16(FP)
                        F0    AD  9F 02A28          PUSHAB  -16(FP)
   00000000G  EF              04  FB 02A2B          CALLS   #4,PARSE_INPUT
                           0000V  31 02A32          BRW     126$
03 00000000G  EF              00  E0 02A35 113$:    BBS     #0,FULL_CHOICE,.+3                  ; 5850
                           0000V  31 02A3D          BRW     119$
                  00000000    8F  DF 02A40          PUSHAL  #0                                  ; 5854
   00000000G  EF              01  FB 02A46          CALLS   #1,CLEAR
00V00000000G  EF              00  E0 02A4D          BBS     #0,FULL_PROMPT,116$                 ; 5856
03 00000000G  EF              00  E0 02A55          BBS     #0,TEMP_FULL_PROMPT,.+3
                           0000V  31 02A5D          BRW     117$
                 00000000G    EF  9F 02A60 116$:    PUSHAB  SHIFT                               ; 5860
                              04  DD 02A66          PUSHL   #4
                 00000000G    EF  9F 02A68          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 02A6E          CALLS   #3,PAS$WRITE_STRING
```

```
                     FFFF66AD   EF   9F 02A75            PUSHAB  C.ATX
                                02   DD 02A7B            PUSHL   #2
                     00000000G  EF   9F 02A7D            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02A83            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02A8A            PUSHAB  ANSI_REVERSE
                                04   DD 02A90            PUSHL   #4
                     00000000G  EF   9F 02A92            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02A98            CALLS   #3,PAS$WRITE_STRING
                     FFFF6687   EF   9F 02A9F            PUSHAB  C.ATY
                                0D   DD 02AA5            PUSHL   #13
                     00000000G  EF   9F 02AA7            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02AAD            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02AB4            PUSHAB  SEC_ATTR
                                16   DD 02ABA            PUSHL   #22
                     00000000G  EF   9F 02ABC            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02AC2            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02AC9            PUSHAB  ANSI_RESET
                                04   DD 02ACF            PUSHL   #4
                     00000000G  EF   9F 02AD1            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02AD7            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02ADE            PUSHAB  CRLF
                                02   DD 02AE4            PUSHL   #2
                     00000000G  EF   9F 02AE6            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02AEC            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02AF3            PUSHAB  CRLF_SHIFT
                                06   DD 02AF9            PUSHL   #6
                     00000000G  EF   9F 02AFB            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B01            CALLS   #3,PAS$WRITE_STRING
                     FFFF662E   EF   9F 02B08            PUSHAB  C.ATZ
                                0F   DD 02B0E            PUSHL   #15
                     00000000G  EF   9F 02B10            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B16            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02B1D            PUSHAB  CRLF_SHIFT
                                06   DD 02B23            PUSHL   #6
                     00000000G  EF   9F 02B25            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B2B            CALLS   #3,PAS$WRITE_STRING
                     FFFF6614   EF   9F 02B32            PUSHAB  C.AUA
                                10   DD 02B38            PUSHL   #16
                     00000000G  EF   9F 02B3A            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B40            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02B47            PUSHAB  CRLF_SHIFT
                                06   DD 02B4D            PUSHL   #6
                     00000000G  EF   9F 02B4F            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B55            CALLS   #3,PAS$WRITE_STRING
                     FFFF65FA   EF   9F 02B5C            PUSHAB  C.AUB
                                10   DD 02B62            PUSHL   #16
                     00000000G  EF   9F 02B64            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B6A            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02B71            PUSHAB  CRLF
                                02   DD 02B77            PUSHL   #2
                     00000000G  EF   9F 02B79            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 03   FB 02B7F            CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 02B86            PUSHAB  PAS$FV_OUTPUT
 00000000G   EF                 01   FB 02B8C            CALLS   #1,PAS$WRITELN2
                           0000V     31 02B93            BRW     124$
                     00000000G  EF   9F 02B96  117$:     PUSHAB  SHIFT                                             ; 5875
                                04   DD 02B9C            PUSHL   #4
```

```
                  00000000G EF   9F 02B9E        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BA4        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02BAB        PUSHAB  QUES_HINT
                            1F   DD 02BB1        PUSHL   #31
                  00000000G EF   9F 02BB3        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BB9        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02BC0        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            01   FB 02BC6        CALLS   #1,PAS$WRITELN2
                         0000V   31 02BCD        BRW     124$
                  00000000  8F   DF 02BD0 119$:  PUSHAL  #0                                    ; 5883
   00000000G  EF            01   FB 02BD6        CALLS   #1,CLEAR
00V00000000G  EF            00   E0 02BDD        BBS     #0,FULL_PROMPT,121$                   ; 5885
03 00000000G  EF            00   E0 02BE5        BBS     #0,TEMP_FULL_PROMPT,.+3
                         0000V   31 02BED        BRW     122$
                  00000000G EF   9F 02BF0 121$:  PUSHAB  SHIFT                                 ; 5889
                            04   DD 02BF6        PUSHL   #4
                  00000000G EF   9F 02BF8        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02BFE        CALLS   #3,PAS$WRITE_STRING
                  FFFF6561  EF   9F 02C05        PUSHAB  C.AUC
                            02   DD 02C0B        PUSHL   #2
                  00000000G EF   9F 02C0D        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C13        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C1A        PUSHAB  ANSI_REVERSE
                            04   DD 02C20        PUSHL   #4
                  00000000G EF   9F 02C22        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C28        CALLS   #3,PAS$WRITE_STRING
                  FFFF653B  EF   9F 02C2F        PUSHAB  C.AUD
                            0F   DD 02C35        PUSHL   #15
                  00000000G EF   9F 02C37        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C3D        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C44        PUSHAB  SEC_ATTR
                            16   DD 02C4A        PUSHL   #22
                  00000000G EF   9F 02C4C        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C52        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C59        PUSHAB  ANSI_RESET
                            04   DD 02C5F        PUSHL   #4
                  00000000G EF   9F 02C61        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C67        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C6E        PUSHAB  CRLF
                            02   DD 02C74        PUSHL   #2
                  00000000G EF   9F 02C76        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03   FB 02C7C        CALLS   #3,PAS$WRITE_STRING
                  00000000G EF   9F 02C83        PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            01   FB 02C89        CALLS   #1,PAS$WRITELN2
                  000000FC  8F   DD 02C90        PUSHL   #252                                  ; 5896
                            07   DD 02C96        PUSHL   #7
                            04   DD 02C98        PUSHL   #4
                  00000000G EF   9F 02C9A        PUSHAB  SYS$OUTPUT_NAME
                            0B   DD 02CA0        PUSHL   #11
                            01   DD 02CA2        PUSHL   #1
                  00000000G EF   9F 02CA4        PUSHAB  FDL_DEST
   00000000G  EF            07   FB 02CAA        CALLS   #7,PAS$OPEN2
                  00000000G EF   9F 02CB1        PUSHAB  FDL_DEST                              ; 5898
   00000000G  EF            01   FB 02CB7        CALLS   #1,PAS$REWRITE2
                  00000000G EF   9F 02CBE        PUSHAB  TEST                                  ; 5900
   00000000G  EF            01   FB 02CC4        CALLS   #1,SHOW_PRIMARY_SECTION
                  00000000G EF   9F 02CCB        PUSHAB  FDL_DEST                              ; 5902
```

```
00000000G  EF                 01   FB 02CD1          CALLS   #1,PAS$CLOSE2
                              00V  11 02CD8          BRB     124$
                00000000G     EF   9F 02CDA  122$:   PUSHAB  SHIFT                                     ; 5908
                              04   DD 02CE0          PUSHL   #4
                00000000G     EF   9F 02CE2          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02CE8          CALLS   #3,PAS$WRITE_STRING
                00000000G     EF   9F 02CEF          PUSHAB  QUES_HINT
                              1F   DD 02CF5          PUSHL   #31
                00000000G     EF   9F 02CF7          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02CFD          CALLS   #3,PAS$WRITE_STRING
                00000000G     EF   9F 02D04          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 01   FB 02D0A          CALLS   #1,PAS$WRITELN2
                00000000G     EF   9F 02D11  124$:   PUSHAB  SHIFT                                     ; 5912
                              04   DD 02D17          PUSHL   #4
                00000000G     EF   9F 02D19          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D1F          CALLS   #3,PAS$WRITE_STRING
                FFFF6454      EF   9F 02D26          PUSHAB  C.AUE
                              21   DD 02D2C          PUSHL   #33
                00000000G     EF   9F 02D2E          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D34          CALLS   #3,PAS$WRITE_STRING
                00000000G     EF   9F 02D3B          PUSHAB  ANSI_REVERSE
                              04   DD 02D41          PUSHL   #4
                00000000G     EF   9F 02D43          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D49          CALLS   #3,PAS$WRITE_STRING
                FFFF644E      EF   9F 02D50          PUSHAB  C.AUF
                              03   DD 02D56          PUSHL   #3
                00000000G     EF   9F 02D58          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D5E          CALLS   #3,PAS$WRITE_STRING
                00000000G     EF   9F 02D65          PUSHAB  ANSI_RESET
                              04   DD 02D6B          PUSHL   #4
                00000000G     EF   9F 02D6D          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D73          CALLS   #3,PAS$WRITE_STRING
                FFFF6428      EF   9F 02D7A          PUSHAB  C.AUG
                              03   DD 02D80          PUSHL   #3
                00000000G     EF   9F 02D82          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 02D88          CALLS   #3,PAS$WRITE_STRING
                00000000      8F   DF 02D8F          PUSHAL  #0                                        ; 5914
                       00     8F   9F 02D95          PUSHAB  #0
       F4  AD   00000000G     EF   9E 02D98          MOVAB   EDF$AB_SYSTEM_TABLE_STA,-12(FP)
                       F4     AD   9F 02DA0          PUSHAB  -12(FP)
       F0  AD   00000000G     EF   9E 02DA3          MOVAB   EDF$AB_SYSTEM_TABLE_KEY,-16(FP)
                       F0     AD   9F 02DAB          PUSHAB  -16(FP)
00000000G  EF                 04   FB 02DAE          CALLS   #4,PARSE_INPUT
                              00V  11 02DB5          BRB     126$
                                      02DB7  125$:
           0F   00000019G     EF   91 02DB7  126$:   CMPB    TEST+25,#15                               ; 5929
                              00V  13 02DBE          BEQL    128$
00000000G  EF                 01   90 02DC0          MOVB    #1,TEST                                   ; 5931
0000001EG  EF   00000000G     EF   90 02DC7  128$:   MOVB    INPUT_VALUE,TEST+30                       ; 5933
       87  8F   0000001EG     EF   91 02DD2          CMPB    TEST+30,#-121                             ; 5940
                              00V  12 02DDA          BNEQ    130$
0000001FG  EF                 07   D0 02DDC          MOVL    #7,TEST+31                                ; 5942
                              00V  11 02DE3          BRB     131$
0000001FG  EF   00000000G     EF   D0 02DE5  130$:   MOVL    EDF$GL_SECNUM,TEST+31                     ; 5946
                0000001FG     EF   D5 02DF0  131$:   TSTL    TEST+31                                   ; 5948
                              00V  19 02DF6          BLSS    133$
           07   0000001FG     EF   D1 02DF8          CMPL    TEST+31,#7
```

```
                                                     00V  15 02DFF         BLEQ    134$
                                                     00   DD 02E01 133$:   PUSHL   #0                                         ; 5954
                                                     00   DD 02E03         PUSHL   #0
                                                     00   DD 02E05         PUSHL   #0
                                          00B38038   8F   DD 02E07         PUSHL   #11763768
                            00000000G  EF            04   FB 02E0D         CALLS   #4,LIB$SIGNAL
                         03 00000000G  EF            00   E1 02E14 134$:   BBC     #0,FULL_CHOICE,.+3                         ; 5959
                                                   0000V  31 02E1C         BRW     147$
                            00000000G  EF 00000000G  EF   D0 02E1F         MOVL    DEF_HEAD,DEF_CURRENT                       ; 5963
                                                01   8F   9F 02E2A 136$:   PUSHAB  #1                                         ; 5967
                                          00000000G  EF   9F 02E2D         PUSHAB  TEST
                            00000000G  EF            02   FB 02E33         CALLS   #2,CURRENT_EQ_TEST
                                       00V           50   E8 02E3A         BLBS    R0,138$
                            00000000G  EF            00   FB 02E3D         CALLS   #0,INCR_CURRENT                            ; 5969
                                                01   8F   9F 02E44 138$:   PUSHAB  #1
                                          00000000G  EF   9F 02E47         PUSHAB  TEST
                            00000000G  EF            02   FB 02E4D         CALLS   #2,CURRENT_EQ_TEST
                                                     51   94 02E54         CLRB    R1
                                       5C 00000000G  EF   D0 02E56         MOVL    DEF_CURRENT,R12
                                                01   AC   D5 02E5D         TSTL    1(R12)
                                                     00V  12 02E60         BNEQ    140$
                                                     51   96 02E62         INCB    R1
                                       51            50   88 02E64 140$:   BISB2   R0,R1
                                       C0            51   E9 02E67         BLBC    R1,136$
                                          00000000G  EF   D5 02E6A         TSTL    DEF_CURRENT                                ; 5973
                                                     00V  13 02E70         BEQL    145$
                                                01   8F   9F 02E72         PUSHAB  #1                                         ; 5977
                                          00000000G  EF   9F 02E75         PUSHAB  TEST
                            00000000G  EF            02   FB 02E7B         CALLS   #2,CURRENT_EQ_TEST
                                       00V           50   E8 02E82         BLBS    R0,147$
                                                     00   DD 02E85         PUSHL   #0                                         ; 5979
                                                     00   DD 02E87         PUSHL   #0
                                                     00   DD 02E89         PUSHL   #0
                                          00B38038   8F   DD 02E8B         PUSHL   #11763768
                            00000000G  EF            04   FB 02E91         CALLS   #4,LIB$SIGNAL
                                                     00V  11 02E98         BRB     147$
                                                     00   DD 02E9A 145$:   PUSHL   #0                                         ; 5985
                                                     00   DD 02E9C         PUSHL   #0
                                                     00   DD 02E9E         PUSHL   #0
                                          00B38038   8F   DD 02EA0         PUSHL   #11763768
                            00000000G  EF            04   FB 02EA6         CALLS   #4,LIB$SIGNAL
                                          00000000G  EF   94 02EAD 147$:   CLRB    TEMP_FULL_PROMPT                           ; 5992
                                                          04 02EB3         RET                                                ; 5994

; Routine Size: 11956 bytes,    Routine Base: $CODE + 0A990

                                                             00000 ASK_TEST_SECONDARY_VALUE:                                  ; 6056
                                                        0000 00000         .WORD   ^M<>
                                       5E     FEED   CE   9E 00002         MOVAB   -275(SP),SP
                                       0F 00000019G  EF   91 00007         CMPB    TEST+25,#15                                ; 6750
                                                     00V  12 0000E         BNEQ    2$
                                          00000000G  EF   94 00010         CLRB    TEST                                       ; 6752
                                                     00V  11 00016         BRB     4$
                            00000000G  EF            01   90 00018 2$:     MOVB    #1,TEST                                    ; 6756
                                       51            5D   D0 0001F 4$:     MOVL    FP,R1                                      ; 6763
                                  00V  AF            00   FB 00022         CALLS   #0,THE_QUESTION
                         F1 00000000G  EF            00   E0 00026         BBS     #0,SYS$INPUT_ERROR,4$
```

```
                  00000000G  EF   9F 0002E           PUSHAB   INPUT_DESC                            ; 6767
   00000000G  EF              01   FB 00034           CALLS    #1,STR$FREE1_DX
                                  04 0003B           RET                                            ; 6769

; Routine Size: 60 bytes,    Routine Base: $CODE + 0D844

                                     00000 THE_QUESTION:                                            ; 6065
                                001C 00000           .WORD    ^M<R2,R3,R4>
              5E              10   C2 00002           SUBL2    #16,SP
                         F8  AD   D4 00005           CLRL     -8(FP)
              6D  00000000G  EF   9E 00008           MOVAB    PAS$HANDLER,(FP)
              5C              51   D0 0000F           MOVL     R1,R12
                  00000000G  EF   94 00012           CLRB     SYS$INPUT_ERROR                       ; 6072
          F8  AD  00000000G  EF   9E 00018           MOVAB    SYS$INPUT_COND_HANDLER,FP-8           ; 6073
00V00000000G  EF              00   E1 00020           BBC      #0,TEMP_FULL_PROMPT,2$                ; 6075
                  00000000G  EF   9F 00028           PUSHAB   SHIFT                                 ; 6077
                              04   DD 0002E           PUSHL    #4
                  00000000G  EF   9F 00030           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 00036           CALLS    #3,PAS$WRITE_STRING
                  FFFF6279   EF   9F 0003D           PUSHAB   C.AUH
                              32   DD 00043           PUSHL    #50
                  00000000G  EF   9F 00045           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 0004B           CALLS    #3,PAS$WRITE_STRING
                  00000000G  EF   9F 00052           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              01   FB 00058           CALLS    #1,PAS$WRITELN2
              07  00000019G  EF   91 0005F 2$:       CMPB     TEST+25,#7                            ; 6083
                              00V  12 00066           BNEQ     4$
                  00000000G  EF   9F 00068           PUSHAB   CRLF_SHIFT                            ; 6085
                              06   DD 0006E           PUSHL    #6
                  00000000G  EF   9F 00070           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 00076           CALLS    #3,PAS$WRITE_STRING
                  FFFF626D   EF   9F 0007D           PUSHAB   C.AUI
                              19   DD 00083           PUSHL    #25
                  00000000G  EF   9F 00085           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 0008B           CALLS    #3,PAS$WRITE_STRING
              21  0000001EG  EF   91 00092 4$:       CMPB     TEST+30,#33                           ; 6088
                              03   13 00099           BEQL     .+3
                           0000V  31 0009B           BRW      6$
                  00000000G  EF   9F 0009E           PUSHAB   CRLF_SHIFT                            ; 6090
                              06   DD 000A4           PUSHL    #6
                  00000000G  EF   9F 000A6           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 000AC           CALLS    #3,PAS$WRITE_STRING
                  FFFF6253   EF   9F 000B3           PUSHAB   C.AUJ
                              28   DD 000B9           PUSHL    #40
                  00000000G  EF   9F 000BB           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 000C1           CALLS    #3,PAS$WRITE_STRING
                  00000000G  EF   9F 000C8           PUSHAB   CRLF_SHIFT
                              06   DD 000CE           PUSHL    #6
                  00000000G  EF   9F 000D0           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 000D6           CALLS    #3,PAS$WRITE_STRING
                  FFFF6251   EF   9F 000DD           PUSHAB   C.AUK
                              16   DD 000E3           PUSHL    #22
                  00000000G  EF   9F 000E5           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 000EB           CALLS    #3,PAS$WRITE_STRING
                  00000000G  EF   9F 000F2           PUSHAB   CRLF_SHIFT
                              06   DD 000F8           PUSHL    #6
                  00000000G  EF   9F 000FA           PUSHAB   PAS$FV_OUTPUT
          00000000G  EF              03   FB 00100           CALLS    #3,PAS$WRITE_STRING
                        FFFF623F     EF   9F 00107           PUSHAB   C.AUL
                                     1A   DD 0010D           PUSHL    #26
                        00000000G    EF   9F 0010F           PUSHAB   PAS$FV_OUTPUT
          00000000G  EF              03   FB 00115           CALLS    #3,PAS$WRITE_STRING
                                     00V  11 0011C           BRB      9$
                     50 0000001EG    EF   9A 0011E 6$:       MOVZBL   TEST+30,R0                                    ; 6095
                     50              04   C4 00125           MULL2    #4,R0
                     50              02   C0 00128           ADDL2    #2,R0
       00V00000000G  EF              50   E0 0012B           BBS      R0,SEC_TYPE,8$
                        00000000G    EF   9F 00133           PUSHAB   CRLF_SHIFT                                    ; 6097
                                     06   DD 00139           PUSHL    #6
                        00000000G    EF   9F 0013B           PUSHAB   PAS$FV_OUTPUT
          00000000G  EF              03   FB 00141           CALLS    #3,PAS$WRITE_STRING
                        FFFF621A     EF   9F 00148           PUSHAB   C.AUM
                                     20   DD 0014E           PUSHL    #32
                        00000000G    EF   9F 00150           PUSHAB   PAS$FV_OUTPUT
          00000000G  EF              03   FB 00156           CALLS    #3,PAS$WRITE_STRING
                                             0015D 8$:
                     50 0000001EG    EF   9A 0015D 9$:       MOVZBL   TEST+30,R0                                    ; 6099
                     50              04   C4 00164           MULL2    #4,R0
                     50              02   C0 00167           ADDL2    #2,R0
       03 00000000G  EF              50   E0 0016A           BBS      R0,SEC_TYPE,.+3
                                   0000V  31 00172           BRW      27$
                     50 0000001EG    EF   9A 00175           MOVZBL   TEST+30,R0                                    ; 6103
       34        62  8F              50   8F 0017C           CASEB    R0,#98,#52
                                   0000V     00181           .DISPL   11$
                                   006A      00183           .DISPL   106
                                   006A      00185           .DISPL   106
                                   006A      00187           .DISPL   106
                                   006A      00189           .DISPL   106
                                   006A      0018B           .DISPL   106
                                   006A      0018D           .DISPL   106
                                   006A      0018F           .DISPL   106
                                   006A      00191           .DISPL   106
                                   006A      00193           .DISPL   106
                                   006A      00195           .DISPL   106
                                   006A      00197           .DISPL   106
                                   006A      00199           .DISPL   106
                                   006A      0019B           .DISPL   106
                                   006A      0019D           .DISPL   106
                                   006A      0019F           .DISPL   106
                                   006A      001A1           .DISPL   106
                                   006A      001A3           .DISPL   106
                                   006A      001A5           .DISPL   106
                                   006A      001A7           .DISPL   106
                                   0000V     001A9           .DISPL   13$
                                   006A      001AB           .DISPL   106
                                   006A      001AD           .DISPL   106
                                   006A      001AF           .DISPL   106
                                   006A      001B1           .DISPL   106
                                   006A      001B3           .DISPL   106
                                   006A      001B5           .DISPL   106
                                   006A      001B7           .DISPL   106
                                   006A      001B9           .DISPL   106
                                   006A      001BB           .DISPL   106
                                   006A      001BD           .DISPL   106
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                          006A    001BF       .DISPL  106
                          006A    001C1       .DISPL  106
                          006A    001C3       .DISPL  106
                          006A    001C5       .DISPL  106
                          006A    001C7       .DISPL  106
                          006A    001C9       .DISPL  106
                         0000V    001CB       .DISPL  16$
                          006A    001CD       .DISPL  106
                         0000V    001CF       .DISPL  14$
                          006A    001D1       .DISPL  106
                         0000V    001D3       .DISPL  15$
                          006A    001D5       .DISPL  106
                          006A    001D7       .DISPL  106
                          006A    001D9       .DISPL  106
                          006A    001DB       .DISPL  106
                          006A    001DD       .DISPL  106
                          006A    001DF       .DISPL  106
                          006A    001E1       .DISPL  106
                          006A    001E3       .DISPL  106
                          006A    001E5       .DISPL  106
                         0000V    001E7       .DISPL  12$
                         0000V    001E9       .DISPL  12$
                         0000V 31 001EB       BRW     17$
               00000000G    EF 9F 001EE 11$:  PUSHAB  CRLF_SHIFT                        ; 6107
                            06 DD 001F4       PUSHL   #6
               00000000G    EF 9F 001F6       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 001FC       CALLS   #3,PAS$WRITE_STRING
               FFFF617F     EF 9F 00203       PUSHAB  C.AUN
                            1D DD 00209       PUSHL   #29
               00000000G    EF 9F 0020B       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 00211       CALLS   #3,PAS$WRITE_STRING
                         0000V 31 00218       BRW     18$
               00000000G    EF 9F 0021B 12$:  PUSHAB  CRLF_SHIFT                        ; 6113
                            06 DD 00221       PUSHL   #6
               00000000G    EF 9F 00223       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 00229       CALLS   #3,PAS$WRITE_STRING
               FFFF6172     EF 9F 00230       PUSHAB  C.AUO
                            2F DD 00236       PUSHL   #47
               00000000G    EF 9F 00238       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 0023E       CALLS   #3,PAS$WRITE_STRING
                         0000V 31 00245       BRW     18$
               00000000G    EF 9F 00248 13$:  PUSHAB  CRLF_SHIFT                        ; 6118
                            06 DD 0024E       PUSHL   #6
               00000000G    EF 9F 00250       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 00256       CALLS   #3,PAS$WRITE_STRING
               FFFF6175     EF 9F 0025D       PUSHAB  C.AUP
                            3E DD 00263       PUSHL   #62
               00000000G    EF 9F 00265       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 0026B       CALLS   #3,PAS$WRITE_STRING
                         0000V 31 00272       BRW     18$
               00000000G    EF 9F 00275 14$:  PUSHAB  CRLF_SHIFT                        ; 6123
                            06 DD 0027B       PUSHL   #6
               00000000G    EF 9F 0027D       PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03 FB 00283       CALLS   #3,PAS$WRITE_STRING
               FFFF6188     EF 9F 0028A       PUSHAB  C.AUQ
                            24 DD 00290       PUSHL   #36
               00000000G    EF 9F 00292       PUSHAB  PAS$FV_OUTPUT
```

```
    00000000G  EF                 03  FB 00298       CALLS   #3,PAS$WRITE_STRING
                               0000V  31 0029F       BRW     18$
                   00000000G      EF  9F 002A2 15$:  PUSHAB  CRLF_SHIFT                             ; 6128
                                  06  DD 002A8       PUSHL   #6
                   00000000G      EF  9F 002AA       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 002B0       CALLS   #3,PAS$WRITE_STRING
                   FFFF617F       EF  9F 002B7       PUSHAB  C.AUR
                                  21  DD 002BD       PUSHL   #33
                   00000000G      EF  9F 002BF       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 002C5       CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 002CC       PUSHAB  CRLF_SHIFT
                                  06  DD 002D2       PUSHL   #6
                   00000000G      EF  9F 002D4       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 002DA       CALLS   #3,PAS$WRITE_STRING
                   FFFF6179       EF  9F 002E1       PUSHAB  C.AUS
                                  18  DD 002E7       PUSHL   #24
                   00000000G      EF  9F 002E9       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 002EF       CALLS   #3,PAS$WRITE_STRING
                                 00V  11 002F6       BRB     18$
                   00000000G      EF  9F 002F8 16$:  PUSHAB  CRLF_SHIFT                             ; 6134
                                  06  DD 002FE       PUSHL   #6
                   00000000G      EF  9F 00300       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 00306       CALLS   #3,PAS$WRITE_STRING
                   FFFF6165       EF  9F 0030D       PUSHAB  C.AUT
                                  2E  DD 00313       PUSHL   #46
                   00000000G      EF  9F 00315       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 0031B       CALLS   #3,PAS$WRITE_STRING
                                 00V  11 00322       BRB     18$
                                         00324 17$:
                   00000000G      EF  9F 00324 18$:  PUSHAB  CRLF_SHIFT                             ; 6143
                                  06  DD 0032A       PUSHL   #6
                   00000000G      EF  9F 0032C       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 00332       CALLS   #3,PAS$WRITE_STRING
                   FFFF6169       EF  9F 00339       PUSHAB  C.AUU
                                  28  DD 0033F       PUSHL   #40
                   00000000G      EF  9F 00341       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 00347       CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 0034E       PUSHAB  ANSI_REVERSE
                                  04  DD 00354       PUSHL   #4
                   00000000G      EF  9F 00356       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 0035C       CALLS   #3,PAS$WRITE_STRING
                   FFFF6167       EF  9F 00363       PUSHAB  C.AUV
                                  03  DD 00369       PUSHL   #3
                   00000000G      EF  9F 0036B       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 00371       CALLS   #3,PAS$WRITE_STRING
                   00000000G      EF  9F 00378       PUSHAB  ANSI_RESET
                                  04  DD 0037E       PUSHL   #4
                   00000000G      EF  9F 00380       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 00386       CALLS   #3,PAS$WRITE_STRING
                   FFFF6141       EF  9F 0038D       PUSHAB  C.AUW
                                  03  DD 00393       PUSHL   #3
                   00000000G      EF  9F 00395       PUSHAB  PAS$FV_OUTPUT
    00000000G  EF                 03  FB 0039B       CALLS   #3,PAS$WRITE_STRING
               50  0000001EG      EF  9A 003A2       MOVZBL  TEST+30,R0                             ; 6146
34        62   8F                 50  8F 003A9       CASEB   R0,#98,#52
                               0000V     003AE       .DISPL  19$
                               006A      003B0       .DISPL  106
```

```
                           006A     003B2          .DISPL  106
                           006A     003B4          .DISPL  106
                           006A     003B6          .DISPL  106
                           006A     003B8          .DISPL  106
                           006A     003BA          .DISPL  106
                           006A     003BC          .DISPL  106
                           006A     003BE          .DISPL  106
                           006A     003C0          .DISPL  106
                           006A     003C2          .DISPL  106
                           006A     003C4          .DISPL  106
                           006A     003C6          .DISPL  106
                           006A     003C8          .DISPL  106
                           006A     003CA          .DISPL  106
                           006A     003CC          .DISPL  106
                           006A     003CE          .DISPL  106
                           006A     003D0          .DISPL  106
                           006A     003D2          .DISPL  106
                           006A     003D4          .DISPL  106
                           0000V    003D6          .DISPL  21$
                           006A     003D8          .DISPL  106
                           006A     003DA          .DISPL  106
                           006A     003DC          .DISPL  106
                           006A     003DE          .DISPL  106
                           006A     003E0          .DISPL  106
                           006A     003E2          .DISPL  106
                           006A     003E4          .DISPL  106
                           006A     003E6          .DISPL  106
                           006A     003E8          .DISPL  106
                           006A     003EA          .DISPL  106
                           006A     003EC          .DISPL  106
                           006A     003EE          .DISPL  106
                           006A     003F0          .DISPL  106
                           006A     003F2          .DISPL  106
                           006A     003F4          .DISPL  106
                           006A     003F6          .DISPL  106
                           0000V    003F8          .DISPL  24$
                           006A     003FA          .DISPL  106
                           0000V    003FC          .DISPL  22$
                           006A     003FE          .DISPL  106
                           0000V    00400          .DISPL  23$
                           006A     00402          .DISPL  106
                           006A     00404          .DISPL  106
                           006A     00406          .DISPL  106
                           006A     00408          .DISPL  106
                           006A     0040A          .DISPL  106
                           006A     0040C          .DISPL  106
                           006A     0040E          .DISPL  106
                           006A     00410          .DISPL  106
                           006A     00412          .DISPL  106
                           0000V    00414          .DISPL  20$
                           0000V    00416          .DISPL  20$
                           0000V 31 00418          BRW     25$
              00000000   8F    DF 0041B 19$:       PUSHAL  #0                                        ; 6150
                    00   8F    9F 00421            PUSHAB  #0
  F4    AD  00000000G    EF    9E 00424            MOVAB   EDF$AB_ORG_TABLE_STA,-12(FP)
                    F4   AD    9F 0042C            PUSHAB  -12(FP)
  F0    AD  00000000G    EF    9E 0042F            MOVAB   EDF$AB_ORG_TABLE_KEY,-16(FP)
```

```
                             F0    AD     9F 00437          PUSHAB  -16(FP)
        00000000G  EF              04     FB 0043A          CALLS   #4,PARSE_INPUT
                                 0000V    31 00441          BRW     26$
                   00000000        8F     DF 00444  20$:    PUSHAL  #0                                       ; 6160
                         00        8F     9F 0044A          PUSHAB  #0
     F4      AD 00000000G          EF     9E 0044D          MOVAB   EDF$AB_SOURCE_TABLE_STA,-12(FP)
                             F4    AD     9F 00455          PUSHAB  -12(FP)
     F0      AD 00000000G          EF     9E 00458          MOVAB   EDF$AB_SOURCE_TABLE_KEY,-16(FP)
                             F0    AD     9F 00460          PUSHAB  -16(FP)
        00000000G  EF              04     FB 00463          CALLS   #4,PARSE_INPUT
                                 0000V    31 0046A          BRW     26$
                   00000000        8F     DF 0046D  21$:    PUSHAL  #0                                       ; 6169
                         00        8F     9F 00473          PUSHAB  #0
     F4      AD 00000000G          EF     9E 00476          MOVAB   EDF$AB_RU_TABLE_STA,-12(FP)
                             F4    AD     9F 0047E          PUSHAB  -12(FP)
     F0      AD 00000000G          EF     9E 00481          MOVAB   EDF$AB_RU_TABLE_KEY,-16(FP)
                             F0    AD     9F 00489          PUSHAB  -16(FP)
        00000000G  EF              04     FB 0048C          CALLS   #4,PARSE_INPUT
                                   00V    11 00493          BRB     26$
                   00000000        8F     DF 00495  22$:    PUSHAL  #0                                       ; 6178
                         00        8F     9F 0049B          PUSHAB  #0
     F4      AD 00000000G          EF     9E 0049E          MOVAB   EDF$AB_CARR_TABLE_STA,-12(FP)
                             F4    AD     9F 004A6          PUSHAB  -12(FP)
     F0      AD 00000000G          EF     9E 004A9          MOVAB   EDF$AB_CARR_TABLE_KEY,-16(FP)
                             F0    AD     9F 004B1          PUSHAB  -16(FP)
        00000000G  EF              04     FB 004B4          CALLS   #4,PARSE_INPUT
                                   00V    11 004BB          BRB     26$
                   00000000        8F     DF 004BD  23$:    PUSHAL  #0                                       ; 6187
                         00        8F     9F 004C3          PUSHAB  #0
     F4      AD 00000000G          EF     9E 004C6          MOVAB   EDF$AB_FORMAT_TABLE_STA,-12(FP)
                             F4    AD     9F 004CE          PUSHAB  -12(FP)
     F0      AD 00000000G          EF     9E 004D1          MOVAB   EDF$AB_FORMAT_TABLE_KEY,-16(FP)
                             F0    AD     9F 004D9          PUSHAB  -16(FP)
        00000000G  EF              04     FB 004DC          CALLS   #4,PARSE_INPUT
                                   00V    11 004E3          BRB     26$
                   00000000        8F     DF 004E5  24$:    PUSHAL  #0                                       ; 6196
                         00        8F     9F 004EB          PUSHAB  #0
     F4      AD 00000000G          EF     9E 004EE          MOVAB   EDF$AB_TYPE_TABLE_STA,-12(FP)
                             F4    AD     9F 004F6          PUSHAB  -12(FP)
     F0      AD 00000000G          EF     9E 004F9          MOVAB   EDF$AB_TYPE_TABLE_KEY,-16(FP)
                             F0    AD     9F 00501          PUSHAB  -16(FP)
        00000000G  EF              04     FB 00504          CALLS   #4,PARSE_INPUT
                                   00V    11 0050B          BRB     26$
                                             0050D  25$:
        00000023G  EF 00000000G    EF     D0 0050D  26$:    MOVL    INPUT_VALUE,TEST+35                      ; 6209
                   50 0000001EG    EF     9A 00518  27$:    MOVZBL  TEST+30,R0                               ; 6213
                   50              04     C4 0051F          MULL2   #4,R0
                                   50     D6 00522          INCL    R0
     03 00000000G  EF              50     E0 00524          BBS     R0,SEC_TYPE,.+3
                                 0000V    31 0052C          BRW     65$
                   50 0000001EG    EF     9A 0052F          MOVZBL  TEST+30,R0                               ; 6217
               EC  AC 00000000GEF40       D0 00536          MOVL    SECONDARY_MAX[R0],-20(R12)
                   50 0000001EG    EF     9A 0053F          MOVZBL  TEST+30,R0                               ; 6219
         00000098  8F              50     D1 00546          CMPL    R0,#152
                                   00V    1E 0054D          BGEQU   30$
      00VFFFF5F81  EF              50     E1 0054F          BBC     R0,C.AUX,30$
                      FFFF5F8F     EF     9F 00557          PUSHAB  C.AUY                                    ; 6227
```

```
                                08   DD 0055D         PUSHL   #8
                    00000000G   EF   9F 0055F         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 00565         CALLS   #3,PAS$WRITE_STRING
                                00V  11 0056C         BRB     34$
3B9AC9FF   8F              EC   AC   D1 0056E  30$:   CMPL    -20(R12),#999999999                       ; 6229
                                00V  12 00576         BNEQ    32$
                    FFFF5F76    EF   9F 00578         PUSHAB  C.AUZ                                     ; 6231
                                08   DD 0057E         PUSHL   #8
                    00000000G   EF   9F 00580         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 00586         CALLS   #3,PAS$WRITE_STRING
                                00V  11 0058D         BRB     34$
                    FFFF5F67    EF   9F 0058F  32$:   PUSHAB  C.AVA                                     ; 6235
                                02   DD 00595         PUSHL   #2
                    00000000G   EF   9F 00597         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 0059D         CALLS   #3,PAS$WRITE_STRING
                           EC   AC   9F 005A4         PUSHAB  -20(R12)
00000000G  EF                   01   FB 005A7         CALLS   #1,NUM_LEN
                                50   DD 005AE         PUSHL   R0
                           EC   AC   DD 005B0         PUSHL   -20(R12)
                    00000000G   EF   9F 005B3         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 005B9         CALLS   #3,PAS$WRITE_INTEGER
                                01   DD 005C0         PUSHL   #1
                                29   DD 005C2         PUSHL   #41
                    00000000G   EF   9F 005C4         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 005CA         CALLS   #3,PAS$WRITE_CHAR
                    00000000G   EF   9F 005D1  34$:   PUSHAB  ANSI_REVERSE                              ; 6237
                                04   DD 005D7         PUSHL   #4
                    00000000G   EF   9F 005D9         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 005DF         CALLS   #3,PAS$WRITE_STRING
                    FFFF5F14    EF   9F 005E6         PUSHAB  C.AVB
                                03   DD 005EC         PUSHL   #3
                    00000000G   EF   9F 005EE         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 005F4         CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF   9F 005FB         PUSHAB  ANSI_RESET
                                04   DD 00601         PUSHL   #4
                    00000000G   EF   9F 00603         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 00609         CALLS   #3,PAS$WRITE_STRING
                                52   94 00610         CLRB    R2                                        ; 6239
                           EC   AC   9F 00612         PUSHAB  -20(R12)
00000000G  EF                   01   FB 00615         CALLS   #1,NUM_LEN
           08                   50   D1 0061C         CMPL    R0,#8
                                00V  15 0061F         BLEQ    36$
                                52   96 00621         INCB    R2
                                50   94 00623  36$:   CLRB    R0
3B9AC9FF   8F              EC   AC   D1 00625         CMPL    -20(R12),#999999999
                                00V  12 0062D         BNEQ    38$
                                50   96 0062F         INCB    R0
           52                   50   8A 00631  38$:   BICB2   R0,R2
           00V                  52   E9 00634         BLBC    R2,40$
                    FFFF5EC7    EF   9F 00637         PUSHAB  C.AVC                                     ; 6245
                                03   DD 0063D         PUSHL   #3
                    00000000G   EF   9F 0063F         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03   FB 00645         CALLS   #3,PAS$WRITE_STRING
                                00V  11 0064C         BRB     41$
                    FFFF5EB4    EF   9F 0064E  40$:   PUSHAB  C.AVD                                     ; 6249
                                03   DD 00654         PUSHL   #3
                    00000000G   EF   9F 00656         PUSHAB  PAS$FV_OUTPUT
```

```
  00000000G  EF              03    FB 0065C          CALLS    #3,PAS$WRITE_STRING
                 00000000    8F    DF 00663 41$:     PUSHAL   #0                                   ; 6251
                       00    8F    9F 00669          PUSHAB   #0
                 00000027G   EF    9F 0066C          PUSHAB   TEST+39
  00000000G  EF              03    FB 00672          CALLS    #3,NUMBER_INPUT
             50  0000001EG   EF    9A 00679          MOVZBL   TEST+30,R0                           ; 6253
  00000098   8F              50    D1 00680          CMPL     R0,#152
                             00V   1E 00687          BGEQU    50$
00VFFFF5E7B  EF              50    E1 00689          BBC      R0,C.AVE,50$
00V00000033G EF              00    E1 00691          BBC      #0,VDATA+51,46$                      ; 6263
             03  000000F8G   EF    D1 00699          CMPL     IDATA+248,#3
                             00V   18 006A0          BGEQ     46$
                 00000027G   EF    D5 006A2          TSTL     TEST+39
                             00V   13 006A8          BEQL     46$
                             00    DD 006AA          PUSHL    #0                                   ; 6270
                             00    DD 006AC          PUSHL    #0
                             00    DD 006AE          PUSHL    #0
                 00B38038    8F    DD 006B0          PUSHL    #11763768
  00000000G  EF              04    FB 006B6          CALLS    #4,LIB$SIGNAL
         EC  AC  00000027G   EF    D1 006BD 46$:     CMPL     TEST+39,-20(R12)                     ; 6272
                             00V   14 006C5          BGTR     48$
             50        EC    AC    CE 006C7          MNEGL    -20(R12),R0
             50  00000027G   EF    D1 006CB          CMPL     TEST+39,R0
                             00V   18 006D2          BGEQ     60$
                             00    DD 006D4 48$:     PUSHL    #0                                   ; 6278
                             00    DD 006D6          PUSHL    #0
                             00    DD 006D8          PUSHL    #0
                 00B38038    8F    DD 006DA          PUSHL    #11763768
  00000000G  EF              04    FB 006E0          CALLS    #4,LIB$SIGNAL
                             00V   11 006E7          BRB      60$
         8A  8F  0000001EG   EF    91 006E9 50$:     CMPB     TEST+30,#-118                        ; 6282
                             00V   12 006F1          BNEQ     55$
             01  00000027G   EF    D1 006F3          CMPL     TEST+39,#1                           ; 6286
                             00V   19 006FA          BLSS     53$
         EC  AC  00000027G   EF    D1 006FC          CMPL     TEST+39,-20(R12)
                             00V   15 00704          BLEQ     59$
                             00    DD 00706 53$:     PUSHL    #0                                   ; 6292
                             00    DD 00708          PUSHL    #0
                             00    DD 0070A          PUSHL    #0
                 00B38038    8F    DD 0070C          PUSHL    #11763768
  00000000G  EF              04    FB 00712          CALLS    #4,LIB$SIGNAL
                             00V   11 00719          BRB      59$
                 00000027G   EF    D5 0071B 55$:     TSTL     TEST+39                              ; 6300
                             00V   19 00721          BLSS     57$
         EC  AC  00000027G   EF    D1 00723          CMPL     TEST+39,-20(R12)
                             00V   15 0072B          BLEQ     58$
                             00    DD 0072D 57$:     PUSHL    #0                                   ; 6306
                             00    DD 0072F          PUSHL    #0
                             00    DD 00731          PUSHL    #0
                 00B38038    8F    DD 00733          PUSHL    #11763768
  00000000G  EF              04    FB 00739          CALLS    #4,LIB$SIGNAL
                                      00740 58$:
                                      00740 59$:
         56  8F  0000001EG   EF    91 00740 60$:     CMPB     TEST+30,#86                          ; 6310
                             00V   12 00748          BNEQ     65$
                 00000027G   EF    D5 0074A          TSTL     TEST+39
                             00V   15 00750          BLEQ     65$
```

```
              14 00000027G  EF    D1 00752         CMPL     TEST+39,#20
                            00V   18 00759         BGEQ     65$
                            00    DD 0075B         PUSHL    #0                                      ; 6318
                            00    DD 0075D         PUSHL    #0
                            00    DD 0075F         PUSHL    #0
                 00B38038   8F    DD 00761         PUSHL    #11763768
    00000000G EF            04    FB 00767         CALLS    #4,LIB$SIGNAL
              50 0000001EG  EF    9A 0076E 65$:    MOVZBL   TEST+30,R0                              ; 6322
              50            04    C4 00775         MULL2    #4,R0
00V000000000G EF            50    E0 00778         BBS      R0,SEC_TYPE,67$
              0F 00000019G  EF    91 00780         CMPB     TEST+25,#15
                            03    13 00787         BEQL     .+3
                          0000V   31 00789         BRW      95$
              07 00000019G  EF    91 0078C 67$:    CMPB     TEST+25,#7                              ; 6330
                            00V   12 00793         BNEQ     69$
                 FFFF5D85   EF    9F 00795         PUSHAB   C.AVF                                   ; 6332
                            09    DD 0079B         PUSHL    #9
                 00000000G  EF    9F 0079D         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 007A3         CALLS    #3,PAS$WRITE_STRING
                 00000000G  EF    9F 007AA         PUSHAB   ANSI_REVERSE
                            04    DD 007B0         PUSHL    #4
                 00000000G  EF    9F 007B2         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 007B8         CALLS    #3,PAS$WRITE_STRING
                 FFFF5D67   EF    9F 007BF         PUSHAB   C.AVG
                            03    DD 007C5         PUSHL    #3
                 00000000G  EF    9F 007C7         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 007CD         CALLS    #3,PAS$WRITE_STRING
                 00000000G  EF    9F 007D4         PUSHAB   ANSI_RESET
                            04    DD 007DA         PUSHL    #4
                 00000000G  EF    9F 007DC         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 007E2         CALLS    #3,PAS$WRITE_STRING
                 FFFF5D41   EF    9F 007E9         PUSHAB   C.AVH
                            03    DD 007EF         PUSHL    #3
                 00000000G  EF    9F 007F1         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 007F7         CALLS    #3,PAS$WRITE_STRING
                            00V   11 007FE         BRB      73$
           81 8F 0000001EG  EF    91 00800 69$:    CMPB     TEST+30,#-127                           ; 6334
                            00V   12 00808         BNEQ     71$
                 FFFF5D24   EF    9F 0080A         PUSHAB   C.AVI                                   ; 6336
                            14    DD 00810         PUSHL    #20
                 00000000G  EF    9F 00812         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 00818         CALLS    #3,PAS$WRITE_STRING
                            00V   11 0081F         BRB      73$
                 FFFF5D21   EF    9F 00821 71$:    PUSHAB   C.AVJ                                   ; 6340
                            12    DD 00827         PUSHL    #18
                 00000000G  EF    9F 00829         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 0082F         CALLS    #3,PAS$WRITE_STRING
                 00000000G  EF    9F 00836         PUSHAB   CRLF_SHIFT
                            06    DD 0083C         PUSHL    #6
                 00000000G  EF    9F 0083E         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 00844         CALLS    #3,PAS$WRITE_STRING
                 FFFF5D09   EF    9F 0084B         PUSHAB   C.AVK
                            02    DD 00851         PUSHL    #2
                 00000000G  EF    9F 00853         PUSHAB   PAS$FV_OUTPUT
    00000000G EF            03    FB 00859         CALLS    #3,PAS$WRITE_STRING
00V000000000G EF            30    E0 00860 73$:    BBS      #48,PAS$FV_INPUT,74$                    ; 6342
                 00000000G  EF    9F 00868         PUSHAB   PAS$FV_INPUT
```

```
          00000000G  EF                01  FB 0086E        CALLS    #1,PAS$LOOK_AHEAD
        00V00000000G EF                31  E0 00875 74$:   BBS      #49,PAS$FV_INPUT,76$
                         00000000G     EF  9F 0087D        PUSHAB   PAS$FV_INPUT                         ; 6346
          00000000G  EF                01  FB 00883        CALLS    #1,PAS$RESET2
                                       00  DD 0088A        PUSHL    #0                                   ; 6347
                                       00  DD 0088C        PUSHL    #0
                                       00  DD 0088E        PUSHL    #0
                         00B3804B      8F  DD 00890        PUSHL    #11763787
          00000000G  EF                04  FB 00896        CALLS    #4,LIB$SIGNAL
                         000000FF      8F  DD 0089D 76$:   PUSHL    #255                                 ; 6351
                         00000000G     EF  9F 008A3        PUSHAB   PAS$FV_INPUT
                              FEED     CC  9F 008A9        PUSHAB   -275(RT2)
          00000000G  EF                03  FB 008AD        CALLS    #3,PAS$READ_STRING
                         00000000G     EF  9F 008B4        PUSHAB   PAS$FV_INPUT
          00000000G  EF                01  FB 008BA        CALLS    #1,PAS$READLN2
                         00000000G     EF  9F 008C1        PUSHAB   CRLF                                 ; 6352
                                       02  DD 008C7        PUSHL    #2
                         00000000G     EF  9F 008C9        PUSHAB   PAS$FV_OUTPUT
          00000000G  EF                03  FB 008CF        CALLS    #3,PAS$WRITE_STRING
                         00000000G     EF  9F 008D6        PUSHAB   PAS$FV_OUTPUT
          00000000G  EF                01  FB 008DC        CALLS    #1,PAS$WRITELN2
          00000011G  EF  00000000G     EF  7D 008E3        MOVQ     NULL_STRING,TEST+17                  ; 6354
                 F0  AD  010E00FF      8F  D0 008EE        MOVL     #17694975,-16(FP)                    ; 6355
                 F4  AD       FEED     CC  9E 008F6        MOVAB    -275(R12),-12(FP)
                                F0     AD  9F 008FC        PUSHAB   -16(FP)
                         00000011G     EF  9F 008FF        PUSHAB   TEST+17
          00000000G  EF                02  FB 00905        CALLS    #2,STR$TRIM
                         00000000G     EF  9F 0090C        PUSHAB   INPUT_DESC                           ; 6356
                         00000011G     EF  9F 00912        PUSHAB   TEST+T7
          00000000G  EF                02  FB 00918        CALLS    #2,LIB$SCOPY_DXDX
          00000014G  EF  00000004G     EF  D0 0091F        MOVL     INPUT_DESC+4,PARAM_BLOCK+20          ; 6357
          00000010G  EF  00000000G     EF  3C 0092A        MOVZWL   INPUT_DESC,PARAM_BLOCK+16            ; 6358
        00V00000000G EF                00  E1 00935        BBC      #0,JOURNAL_ENABLED,82$               ; 6364
                         00000011G     EF  B5 0093D        TSTW     TEST+17                              ; 6366
                                      00V  1B 00943        BLEQU    80$
                     7E  00000011G     EF  3C 00945        MOVZWL   TEST+17,-(SP)                        ; 6368
                                       00  DD 0094C        PUSHL    #0
                     50  00000015G     EF  D0 0094E        MOVL     TEST+21,R0
                                       60  9F 00955        PUSHAB   (R0)
                         000000FF      8F  DD 00957        PUSHL    #255
                         00000000G     EF  9F 0095D        PUSHAB   JOURNAL_FILE
          00000000G  EF                05  FB 00963        CALLS    #5,PAS$WRITE_STRING
                         00000000G     EF  9F 0096A        PUSHAB   JOURNAL_FILE
          00000000G  EF                01  FB 00970        CALLS    #1,PAS$WRITELN2
                                      00V  11 00977        BRB      82$
                         00000000G     EF  9F 00979 80$:   PUSHAB   JOURNAL_FILE                         ; 6376
          00000000G  EF                01  FB 0097F        CALLS    #1,PAS$WRITELN2
                     07  00000019G     EF  91 00986 82$:   CMPB     TEST+25,#7                           ; 6378
                                       03  13 0098D        BEQL     .+3
                                    0000V  31 0098F        BRW      90$
                         00000011G     EF  9F 00992        PUSHAB   TEST+17                              ; 6382
                         00000011G     EF  9F 00998        PUSHAB   TEST+17
          00000000G  EF                02  FB 0099E        CALLS    #2,STR$UPCASE
                         00000011G     EF  B5 009A5        TSTW     TEST+17                              ; 6384
                                      00V  12 009AB        BNEQ     85$
                         00000011G     EF  9F 009AD        PUSHAB   TEST+17                              ; 6388
          00000000G  EF                01  FB 009B3        CALLS    #1,STR$FREE1_DX
```

```
                               00 DD 009BA          PUSHL   #0                                      ; 6389
                               00 DD 009BC          PUSHL   #0
                               00 DD 009BE          PUSHL   #0
                   00B38040    8F DD 009C0          PUSHL   #11763776
   00000000G   EF              04 FB 009C6          CALLS   #4,LIB$SIGNAL
               50              01 D0 009CD 85$:     MOVL    #1,R0                                   ; 6397
               52 00000011G    EF 3C 009D0          MOVZWL  TEST+17,R2
               52              50 D1 009D7          CMPL    R0,R2
                              00V 14 009DA          BGTR    87$
          FC   AC              50 D0 009DC 86$:     MOVL    R0,-4(R12)
               51        FC    AC D0 009E0          MOVL    -4(R12),R1                              ; 6399
               53        FC    AC D0 009E4          MOVL    -4(R12),R3
               54 00000015G    EF D0 009E8          MOVL    TEST+21,R4
        FEEC CC41        FF  A443 90 009EF          MOVB    -1(R4)[R3],-276(R12)[R1]
E1             50              52 F3 009F7          AOBLEQ  R2,R0,86$
                  00000000G    EF 9F 009FB 87$:     PUSHAB  QUAD_TIME                               ; 6401
          F0   AD  010E00FF    8F D0 00A01          MOVL    #17694975,-16(FP)
          F4   AD      FEED    CC 9E 00A09          MOVAB   -275(R12),-12(FP)
                         F0    AD 9F 00A0F          PUSHAB  -16(FP)
   00000000G   EF              02 FB 00A12          CALLS   #2,SYS$BINTIM
              00V              50 E8 00A19          BLBS    R0,90$
                  00000011G    EF 9F 00A1C          PUSHAB  TEST+17                                 ; 6407
   00000000G   EF              01 FB 00A22          CALLS   #1,STR$FREE1_DX
                               00 DD 00A29          PUSHL   #0                                      ; 6408
                               00 DD 00A2B          PUSHL   #0
                               00 DD 00A2D          PUSHL   #0
                   00B38030    8F DD 00A2F          PUSHL   #11763760
   00000000G   EF              04 FB 00A35          CALLS   #4,LIB$SIGNAL
          81   8F 0000001EG    EF 91 00A3C 90$:     CMPB    TEST+30,#-127                           ; 6414
                              00V 12 00A44          BNEQ    92$
               20 00000011G    EF B1 00A46          CMPW    TEST+17,#32
                              00V 1A 00A4D          BGTRU   93$
        007E   8F 00000011G    EF B1 00A4F 92$:     CMPW    TEST+17,#126
                              00V 1B 00A58          BLEQU   95$
                  00000011G    EF 9F 00A5A 93$:     PUSHAB  TEST+17                                 ; 6426
   00000000G   EF              01 FB 00A60          CALLS   #1,STR$FREE1_DX
                               00 DD 00A67          PUSHL   #0                                      ; 6427
                               00 DD 00A69          PUSHL   #0
                               00 DD 00A6B          PUSHL   #0
                   00B38030    8F DD 00A6D          PUSHL   #11763760
   00000000G   EF              04 FB 00A73          CALLS   #4,LIB$SIGNAL
               50 0000001EG    EF 9A 00A7A 95$:     MOVZBL  TEST+30,R0                              ; 6433
               50              04 C4 00A81          MULL2   #4,R0
               50              03 C0 00A84          ADDL2   #3,R0
03 00000000G   EF              50 E0 00A87          BBS     R0,SEC_TYPE,.+3
                            0000V 31 00A8F          BRW     112$
                   FFFF5AC4    EF 9F 00A92          PUSHAB  C,AVL                                   ; 6437
                               07 DD 00A98          PUSHL   #7
                  00000000G    EF 9F 00A9A          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03 FB 00AA0          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF 9F 00AA7          PUSHAB  ANSI_REVERSE
                               04 DD 00AAD          PUSHL   #4
                  00000000G    EF 9F 00AAF          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03 FB 00AB5          CALLS   #3,PAS$WRITE_STRING
                   FFFF5AA2    EF 9F 00ABC          PUSHAB  C,AVM
                               03 DD 00AC2          PUSHL   #3
                  00000000G    EF 9F 00AC4          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 00ACA          CALLS   #3,PAS$WRITE_STRING
                  00000000G EF    9F 00AD1          PUSHAB  ANSI_RESET
                            04    DD 00AD7          PUSHL   #4
                  00000000G EF    9F 00AD9          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 00ADF          CALLS   #3,PAS$WRITE_STRING
                  FFFF5A7C  EF    9F 00AE6          PUSHAB  C.AVN
                            03    DD 00AEC          PUSHL   #3
                  00000000G EF    9F 00AEE          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 00AF4          CALLS   #3,PAS$WRITE_STRING
                  00000000  8F    DF 00AFB          PUSHAL  #0                                ; 6438
                        00  8F    9F 00B01          PUSHAB  #0
         F4   AD  00000000G EF    9E 00B04          MOVAB   EDF$AB_YES_NO_TABLE_STA,-12(FP)
                        F4  AD    9F 00B0C          PUSHAB  -12(FP)
         F0   AD  00000000G EF    9E 00B0F          MOVAB   EDF$AB_YES_NO_TABLE_KEY,-16(FP)
                        F0  AD    9F 00B17          PUSHAB  -16(FP)
   00000000G  EF            04    FB 00B1A          CALLS   #4,PARSE_INPUT
                            50    94 00B21          CLRB    R0                                ; 6445
              01  00000000G EF    D1 00B23          CMPL    INPUT_VALUE,#1
                            00V   12 00B2A          BNEQ    98$
                            50    96 00B2C          INCB    R0
   0000002BG  EF            50    90 00B2E 98$:     MOVB    R0,TEST+43
              0B  00000019G EF    91 00B35          CMPB    TEST+25,#11                       ; 6447
                            00V   12 00B3C          BNEQ    103$
                  0000001AG EF    D5 00B3E          TSTL    TEST+26
                            00V   12 00B44          BNEQ    103$
         77   8F  0000001EG EF    91 00B46          CMPB    TEST+30,#119
                            00V   12 00B4E          BNEQ    103$
00V0000002BG  EF            00    E1 00B50          BBC     #0,TEST+43,103$
                            00    DD 00B58          PUSHL   #0                                ; 6457
                            00    DD 00B5A          PUSHL   #0
                            00    DD 00B5C          PUSHL   #0
                  00B38038  8F    DD 00B5E          PUSHL   #11763768
   00000000G  EF            04    FB 00B64          CALLS   #4,LIB$SIGNAL
              0C  00000019G EF    91 00B6B 103$:    CMPB    TEST+25,#12                       ; 6459
                            00V   12 00B72          BNEQ    112$
         88   8F  0000001EG EF    91 00B74          CMPB    TEST+30,#-120
                            00V   12 00B7C          BNEQ    112$
00V0000002BG  EF            00    E1 00B7E          BBC     #0,TEST+43,112$
                  00000000  8F    DF 00B86          PUSHAL  #0                                ; 6469
                        62  8F    9F 00B8C          PUSHAB  #98
                  00000000  8F    DF 00B8F          PUSHAL  #0
                        08  8F    9F 00B95          PUSHAB  #8
                        01  8F    9F 00B98          PUSHAB  #1
   00000000G  EF            05    FB 00B9B          CALLS   #5,FIND_OBJECT
              00V           50    E9 00BA2          BLBC    R0,112$
              50  00000000G EF    D0 00BA5          MOVL    DEF_CURRENT,R0                    ; 6473
              1D        23  A0    D1 00BAC          CMPL    35(R0),#29
                            00V   13 00BB0          BEQL    112$
                            00    DD 00BB2          PUSHL   #0                                ; 6475
                            00    DD 00BB4          PUSHL   #0
                            00    DD 00BB6          PUSHL   #0
                  00B38038  8F    DD 00BB8          PUSHL   #11763768
   00000000G  EF            04    FB 00BBE          CALLS   #4,LIB$SIGNAL
         63   8F  0000001EG EF    91 00BC5 112$:    CMPB    TEST+30,#99                       ; 6483
                            03    13 00BCD          BEQL    .+3
                          0000V   31 00BCF          BRW     114$
                  00000000G EF    D4 00BD2          CLRL    EDF$GL_OWNER_UIC                  ; 6487
```

```
                                              FFFF598E   EF   9F 00BD8        PUSHAB  C.AVO                                     ; 6489
                                                         08   DD 00BDE        PUSHL   #8
                                             00000000G   EF   9F 00BE0        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00BE6        CALLS   #3,PAS$WRITE_STRING
                                             00000000G   EF   9F 00BED        PUSHAB  ANSI_REVERSE
                                                         04   DD 00BF3        PUSHL   #4
                                             00000000G   EF   9F 00BF5        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00BFB        CALLS   #3,PAS$WRITE_STRING
                                              FFFF596C   EF   9F 00C02        PUSHAB  C.AVP
                                                         03   DD 00C08        PUSHL   #3
                                             00000000G   EF   9F 00C0A        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00C10        CALLS   #3,PAS$WRITE_STRING
                                             00000000G   EF   9F 00C17        PUSHAB  ANSI_RESET
                                                         04   DD 00C1D        PUSHL   #4
                                             00000000G   EF   9F 00C1F        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00C25        CALLS   #3,PAS$WRITE_STRING
                                              FFFF5946   EF   9F 00C2C        PUSHAB  C.AVQ
                                                         03   DD 00C32        PUSHL   #3
                                             00000000G   EF   9F 00C34        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00C3A        CALLS   #3,PAS$WRITE_STRING
                                              00000000   8F   DF 00C41        PUSHAL  #0                                        ; 6490
                                                    00   8F   9F 00C47        PUSHAB  #0
                                   F4   AD   00000000G   EF   9E 00C4A        MOVAB   EDF$AB_UIC_TABLE_STA,-12(FP)
                                                    F4   AD   9F 00C52        PUSHAB  -12(FP)
                                   F0   AD   00000000G   EF   9E 00C55        MOVAB   EDF$AB_UIC_TABLE_KEY,-16(FP)
                                                    F0   AD   9F 00C5D        PUSHAB  -16(FP)
                            00000000G   EF               04   FB 00C60        CALLS   #4,PARSE_INPUT
                            0000002CG   EF   00000000G   EF   D0 00C67        MOVL    EDF$GL_OWNER_UIC,TEST+44                  ; 6497
                                   65   8F   0000001EG   EF   91 00C72 114$:  CMPB    TEST+30,#101                              ; 6501
                                                         03   13 00C7A        BEQL    .+3
                                                      0000V   31 00C7C        BRW     117$
                                                         50   D4 00C7F        CLRL    R0                                        ; 6505
                                   FC   AC               50   D0 00C81 116$:  MOVL    R0,-4(R12)
00000000G  EF           01         FC   AC               00   F0 00C85        INSV    #0,-4(R12),#1,EDF$GL_PROT_MASK            ; 6507
                        EE              50               1F   F3 00C8F        AOBLEQ  #31,R0,116$
                                              FFFF58E3   EF   9F 00C93        PUSHAB  C.AVR                                     ; 6509
                                                         09   DD 00C99        PUSHL   #9
                                             00000000G   EF   9F 00C9B        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00CA1        CALLS   #3,PAS$WRITE_STRING
                                             00000000G   EF   9F 00CA8        PUSHAB  ANSI_REVERSE
                                                         04   DD 00CAE        PUSHL   #4
                                             00000000G   EF   9F 00CB0        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00CB6        CALLS   #3,PAS$WRITE_STRING
                                              FFFF58C5   EF   9F 00CBD        PUSHAB  C.AVS
                                                         03   DD 00CC3        PUSHL   #3
                                             00000000G   EF   9F 00CC5        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00CCB        CALLS   #3,PAS$WRITE_STRING
                                             00000000G   EF   9F 00CD2        PUSHAB  ANSI_RESET
                                                         04   DD 00CD8        PUSHL   #4
                                             00000000G   EF   9F 00CDA        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00CE0        CALLS   #3,PAS$WRITE_STRING
                                             00000000G   EF   9F 00CE7        PUSHAB  CRLF_SHIFT
                                                         06   DD 00CED        PUSHL   #6
                                             00000000G   EF   9F 00CEF        PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF               03   FB 00CF5        CALLS   #3,PAS$WRITE_STRING
                                              FFFF588A   EF   9F 00CFC        PUSHAB  C.AVT
                                                         02   DD 00D02        PUSHL   #2
```

```
                 00000000G  EF   9F 00D04         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00D0A         CALLS   #3,PAS$WRITE_STRING
                 00000000   8F   DF 00D11         PUSHAL  #0                                         ; 6510
                       00   8F   9F 00D17         PUSHAB  #0
         F4   AD 00000000G  EF   9E 00D1A         MOVAB   EDF$AB_PROT_TABLE_STA,-12(FP)
                       F4   AD   9F 00D22         PUSHAB  -12(FP)
         F0   AD 00000000G  EF   9E 00D25         MOVAB   EDF$AB_PROT_TABLE_KEY,-16(FP)
                       F0   AD   9F 00D2D         PUSHAB  -16(FP)
   00000000G  EF              04   FB 00D30         CALLS   #4,PARSE_INPUT
   00000030G  EF 00000000G  EF   D0 00D37         MOVL    EDF$GL_PROT_MASK,TEST+48                   ; 6517
              21 0000001EG  EF   91 00D42 117$:   CMPB    TEST+30,#33                                ; 6521
                            03   13 00D49         BEQL    .+3
                          0000V  31 00D4B         BRW     137$
                 FFFF583C   EF   9F 00D4E         PUSHAB  C.AVU                                      ; 6525
                            08   DD 00D54         PUSHL   #8
                 00000000G  EF   9F 00D56         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00D5C         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF   9F 00D63         PUSHAB  ANSI_REVERSE
                            04   DD 00D69         PUSHL   #4
                 00000000G  EF   9F 00D6B         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00D71         CALLS   #3,PAS$WRITE_STRING
                 FFFF581A   EF   9F 00D78         PUSHAB  C.AVV
                            03   DD 00D7E         PUSHL   #3
                 00000000G  EF   9F 00D80         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00D86         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF   9F 00D8D         PUSHAB  ANSI_RESET
                            04   DD 00D93         PUSHL   #4
                 00000000G  EF   9F 00D95         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00D9B         CALLS   #3,PAS$WRITE_STRING
                 FFFF57F4   EF   9F 00DA2         PUSHAB  C.AVW
                            03   DD 00DA8         PUSHL   #3
                 00000000G  EF   9F 00DAA         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00DB0         CALLS   #3,PAS$WRITE_STRING
                 00000000   8F   DF 00DB7         PUSHAL  #0                                         ; 6526
                       00   8F   9F 00DBD         PUSHAB  #0
         F4   AD 00000000G  EF   9E 00DC0         MOVAB   EDF$AB_POSIT_TABLE_STA,-12(FP)
                       F4   AD   9F 00DC8         PUSHAB  -12(FP)
         F0   AD 00000000G  EF   9E 00DCB         MOVAB   EDF$AB_POSIT_TABLE_KEY,-16(FP)
                       F0   AD   9F 00DD3         PUSHAB  -16(FP)
   00000000G  EF              04   FB 00DD6         CALLS   #4,PARSE_INPUT
   00000023G  EF 00000000G  EF   D0 00DDD         MOVL    INPUT_VALUE,TEST+35                        ; 6533
   00000100   8F 00000023G  EF   D1 00DE8         CMPL    TEST+35,#256                               ; 6535
                            00V  1E 00DF3         BGEQU   119$
03 FFFF579F   EF 00000023G  EF   E1 00DF5         BBC     TEST+35,C.AVX,..+3
                          0000V  31 00E01         BRW     136$
                 00000000G  EF   9F 00E04 119$:   PUSHAB  CRLF_SHIFT                                 ; 6539
                            06   DD 00E0A         PUSHL   #6
                 00000000G  EF   9F 00E0C         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00E12         CALLS   #3,PAS$WRITE_STRING
                 FFFF57A1   EF   9F 00E19         PUSHAB  C.AVY
                            17   DD 00E1F         PUSHL   #23
                 00000000G  EF   9F 00E21         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03   FB 00E27         CALLS   #3,PAS$WRITE_STRING
06            01 00000023G  EF   CF 00E2E         CASEL   TEST+35,#1,#6                              ; 6541
                          0000V     00E36         .DISPL  120$
                          0000V     00E38         .DISPL  120$
                          0000V     00E3A         .DISPL  121$
```

```
                                    0000V     00E3C            .DISPL   122$
                                    0000V     00E3E            .DISPL   120$
                                    000E      00E40            .DISPL   14
                                    0000V     00E42            .DISPL   120$
                                    0000V  31 00E44            BRW      134$
                      FFFF578B    EF       9F 00E47  120$:     PUSHAB   C_AVZ                                        ; 6547
                                  08       DD 00E4D            PUSHL    #8
                      00000000G   EF       9F 00E4F            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00E55            CALLS    #3,PAS$WRITE_STRING
                      00000000G   EF       9F 00E5C            PUSHAB   ANSI_REVERSE
                                  04       DD 00E62            PUSHL    #4
                      00000000G   EF       9F 00E64            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00E6A            CALLS    #3,PAS$WRITE_STRING
                      FFFF5769    EF       9F 00E71            PUSHAB   C_AWA
                                  03       DD 00E77            PUSHL    #3
                      00000000G   EF       9F 00E79            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00E7F            CALLS    #3,PAS$WRITE_STRING
                      00000000G   EF       9F 00E86            PUSHAB   ANSI_RESET
                                  04       DD 00E8C            PUSHL    #4
                      00000000G   EF       9F 00E8E            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00E94            CALLS    #3,PAS$WRITE_STRING
                      FFFF5743    EF       9F 00E9B            PUSHAB   C_AWB
                                  03       DD 00EA1            PUSHL    #3
                      00000000G   EF       9F 00EA3            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00EA9            CALLS    #3,PAS$WRITE_STRING
                      00000000    8F       DF 00EB0            PUSHAL   #0                                           ; 6548
                            00    8F       9F 00EB6            PUSHAB   #0
                      00000027G   EF       9F 00EB9            PUSHAB   TEST+39
           00000000G  EF          03       FB 00EBF            CALLS    #3,NUMBER_INPUT
                                    0000V  31 00EC6            BRW      136$
                      00000000G   EF       D4 00EC9  121$:     CLRL     EDF$GL_FID1                                  ; 6556
                      00000000G   EF       D4 00ECF            CLRL     EDF$GL_FID2                                  ; 6557
                      00000000G   EF       D4 00ED5            CLRL     EDF$GL_FID3                                  ; 6558
                      FFFF5707    EF       9F 00EDB            PUSHAB   C_AWC                                        ; 6560
                                  08       DD 00EE1            PUSHL    #8
                      00000000G   EF       9F 00EE3            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00EE9            CALLS    #3,PAS$WRITE_STRING
                      00000000G   EF       9F 00EF0            PUSHAB   ANSI_REVERSE
                                  04       DD 00EF6            PUSHL    #4
                      00000000G   EF       9F 00EF8            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00EFE            CALLS    #3,PAS$WRITE_STRING
                      FFFF56E5    EF       9F 00F05            PUSHAB   C_AWD
                                  03       DD 00F0B            PUSHL    #3
                      00000000G   EF       9F 00F0D            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00F13            CALLS    #3,PAS$WRITE_STRING
                      00000000G   EF       9F 00F1A            PUSHAB   ANSI_RESET
                                  04       DD 00F20            PUSHL    #4
                      00000000G   EF       9F 00F22            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00F28            CALLS    #3,PAS$WRITE_STRING
                      FFFF56BF    EF       9F 00F2F            PUSHAB   C_AWE
                                  03       DD 00F35            PUSHL    #3
                      00000000G   EF       9F 00F37            PUSHAB   PAS$FV_OUTPUT
           00000000G  EF          03       FB 00F3D            CALLS    #3,PAS$WRITE_STRING
                      00000000    8F       DF 00F44            PUSHAL   #0                                           ; 6561
                            00    8F       9F 00F4A            PUSHAB   #0
              F4   AD 00000000G   EF       9E 00F4D            MOVAB    EDF$AB_FID_TABLE_STA,-12(FP)
                            F4    AD       9F 00F55            PUSHAB   -12(FP)
```

```
          F0   AD  00000000G  EF    9E  00F58          MOVAB    EDF$AB_FID_TABLE_KEY,-16(FP)
                          F0  AD    9F  00F60          PUSHAB   -16(FP)
   00000000G   EF             04    FB  00F63          CALLS    #4,PARSE_INPUT
   00000034G   EF  00000000G  EF    D0  00F6A          MOVL     EDF$GL_FID1,TEST+52                               ; 6568
   00000038G   EF  00000000G  EF    D0  00F75          MOVL     EDF$GL_FID2,TEST+56                               ; 6569
   0000003CG   EF  00000000G  EF    D0  00F80          MOVL     EDF$GL_FID3,TEST+60                               ; 6570
                           0000V    31  00F8B          BRW      136$
                   FFFF5664   EF    9F  00F8E  122$:   PUSHAB   C.AWF                                             ; 6578
                              12    DD  00F94          PUSHL    #18
                   00000000G  EF    9F  00F96          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF             03    FB  00F9C          CALLS    #3,PAS$WRITE_STRING
                   00000000G  EF    9F  00FA3          PUSHAB   CRLF_SHIFT
                              06    DD  00FA9          PUSHL    #6
                   00000000G  EF    9F  00FAB          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF             03    FB  00FB1          CALLS    #3,PAS$WRITE_STRING
                   FFFF564C   EF    9F  00FB8          PUSHAB   C.AWG
                              02    DD  00FBE          PUSHL    #2
                   00000000G  EF    9F  00FC0          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF             03    FB  00FC6          CALLS    #3,PAS$WRITE_STRING
 00v00000000G  EF             30    E0  00FCD          BBS      #48,PAS$FV_INPUT,123$                             ; 6580
                   00000000G  EF    9F  00FD5          PUSHAB   PAS$FV_INPUT
   00000000G   EF             01    FB  00FDB          CALLS    #1,PAS$LOOK_AHEAD
 00v00000000G  EF             31    E0  00FE2  123$:   BBS      #49,PAS$FV_INPUT,125$
                   00000000G  EF    9F  00FEA          PUSHAB   PAS$FV_INPUT                                      ; 6584
   00000000G   EF             01    FB  00FF0          CALLS    #1,PAS$RESET2
                              00    DD  00FF7          PUSHL    #0                                                ; 6585
                              00    DD  00FF9          PUSHL    #0
                              00    DD  00FFB          PUSHL    #0
                   00B3804B   8F    DD  00FFD          PUSHL    #11763787
   00000000G   EF             04    FB  01003          CALLS    #4,LIB$SIGNAL
                   000000FF   8F    DD  0100A  125$:   PUSHL    #255                                              ; 6589
                   00000000G  EF    9F  01010          PUSHAB   PAS$FV_INPUT
                        FEED  CC    9F  01016          PUSHAB   -275(RT2)
   00000000G   EF             03    FB  0101A          CALLS    #3,PAS$READ_STRING
                   00000000G  EF    9F  01021          PUSHAB   PAS$FV_INPUT
   00000000G   EF             01    FB  01027          CALLS    #1,PAS$READLN2
                   00000000G  EF    9F  0102E          PUSHAB   CRLF                                              ; 6590
                              02    DD  01034          PUSHL    #2
                   00000000G  EF    9F  01036          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF             03    FB  0103C          CALLS    #3,PAS$WRITE_STRING
                   00000000G  EF    9F  01043          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF             01    FB  01049          CALLS    #1,PAS$WRITELN2
   00000011G   EF  00000000G  EF    7D  01050          MOVQ     NULL_STRING,TEST+17                               ; 6592
          F0   AD  010E00FF   8F    D0  0105B          MOVL     #17694975,-16(FP)                                 ; 6593
          F4   AD       FEED  CC    9E  01063          MOVAB    -275(R12),-12(FP)
                          F0  AD    9F  01069          PUSHAB   -16(FP)
                   00000011G  EF    9F  0106C          PUSHAB   TEST+17
   00000000G   EF             02    FB  01072          CALLS    #2,STR$TRIM
                   00000000G  EF    9F  01079          PUSHAB   INPUT_DESC                                        ; 6594
                   00000011G  EF    9F  0107F          PUSHAB   TEST+T7
   00000000G   EF             02    FB  01085          CALLS    #2,LIB$SCOPY_DXDX
   00000014G   EF  00000004G  EF    D0  0108C          MOVL     INPUT_DESC+4,PARAM_BLOCK+20                       ; 6595
   00000010G   EF  00000000G  EF    3C  01097          MOVZWL   INPUT_DESC,PARAM_BLOCK+16                         ; 6596
 00v00000000G  EF             00    E1  010A2          BBC      #0,JOURNAL_ENABLED,131$                           ; 6602
                   00000011G  EF    B5  010AA          TSTW     TEST+17                                           ; 6604
                             00V    1B  010B0          BLEQU    129$
               7E  00000011G  EF    3C  010B2          MOVZWL   TEST+17,-(SP)                                     ; 6606
```

```
                                        00      DD 010B9          PUSHL   #0
                       50 00000015G     EF      D0 010BB          MOVL    TEST+21,R0
                                        60      9F 010C2          PUSHAB  (R0)
                          000000FF      8F      DD 010C4          PUSHL   #255
                          00000000G     EF      9F 010CA          PUSHAB  JOURNAL_FILE
             00000000G  EF              05      FB 010D0          CALLS   #5,PAS$WRITE_STRING
                          00000000G     EF      9F 010D7          PUSHAB  JOURNAL_FILE
             00000000G  EF              01      FB 010DD          CALLS   #1,PAS$WRITELN2
                                        00V     11 010E4          BRB     130$
                          00000000G     EF      9F 010E6 129$:    PUSHAB  JOURNAL_FILE                              ; 6614
             00000000G  EF              01      FB 010EC          CALLS   #1,PAS$WRITELN2
                                                   010F3 130$:
                  006D  8F 00000011G    EF      B1 010F3 131$:    CMPW    TEST+17,#109                              ; 6616
                                        00V     1B 010FC          BLEQU   136$
                                        00      DD 010FE          PUSHL   #0                                        ; 6618
                                        00      DD 01100          PUSHL   #0
                                        00      DD 01102          PUSHL   #0
                          00B38030      8F      DD 01104          PUSHL   #11763760
             00000000G  EF              04      FB 0110A          CALLS   #4,LIB$SIGNAL
                                        00V     11 01111          BRB     136$
                                                   01113 134$:
                                                   01113 136$:
                    83  8F 0000001EG    EF      91 01113 137$:    CMPB    TEST+30,#-125                             ; 6632
                                        00V     13 0111B          BEQL    139$
                    59  8F 0000001EG    EF      91 0111D          CMPB    TEST+30,#89
                                        03      13 01125          BEQL    .+3
                                      0000V     31 01127          BRW     166$
                          FFFF54DC      EF      9F 0112A 139$:    PUSHAB  C.AWH                                     ; 6640
                                        0B      DD 01130          PUSHL   #11
                          00000000G     EF      9F 01132          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF              03      FB 01138          CALLS   #3,PAS$WRITE_STRING
                          00000000G     EF      9F 0113F          PUSHAB  ANSI_REVERSE
                                        04      DD 01145          PUSHL   #4
                          00000000G     EF      9F 01147          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF              03      FB 0114D          CALLS   #3,PAS$WRITE_STRING
                          FFFF54BE      EF      9F 01154          PUSHAB  C.AWI
                                        03      DD 0115A          PUSHL   #3
                          00000000G     EF      9F 0115C          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF              03      FB 01162          CALLS   #3,PAS$WRITE_STRING
                          00000000G     EF      9F 01169          PUSHAB  ANSI_RESET
                                        04      DD 0116F          PUSHL   #4
                          00000000G     EF      9F 01171          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF              03      FB 01177          CALLS   #3,PAS$WRITE_STRING
                          FFFF5498      EF      9F 0117E          PUSHAB  C.AWJ
                                        03      DD 01184          PUSHL   #3
                          00000000G     EF      9F 01186          PUSHAB  PAS$FV_OUTPUT
             00000000G  EF              03      FB 0118C          CALLS   #3,PAS$WRITE_STRING
          00V00000000G  EF              30      E0 01193          BBS     #48,PAS$FV_INPUT,140$                     ; 6643
                          00000000G     EF      9F 0119B          PUSHAB  PAS$FV_INPUT
             00000000G  EF              01      FB 011A1          CALLS   #1,PAS$LOOK_AHEAD
          00V00000000G  EF              31      E0 011A8 140$:    BBS     #49,PAS$FV_INPUT,142$
                          00000000G     EF      9F 011B0          PUSHAB  PAS$FV_INPUT                              ; 6647
             00000000G  EF              01      FB 011B6          CALLS   #1,PAS$RESET2
                                        00      DD 011BD          PUSHL   #0                                        ; 6648
                                        00      DD 011BF          PUSHL   #0
                                        00      DD 011C1          PUSHL   #0
                          00B3804B      8F      DD 011C3          PUSHL   #11763787
```

```
   00000000G  EF              04   FB 011C9          CALLS    #4,LIB$SIGNAL
                  000000FF    8F   DD 011D0  142$:   PUSHL    #255                                    ; 6652
                 00000000G    EF   9F 011D6          PUSHAB   PAS$FV_INPUT
                      FEED    CC   9F 011DC          PUSHAB   -275(RT2)
   00000000G  EF              03   FB 011E0          CALLS    #3,PAS$READ_STRING
                 00000000G    EF   9F 011E7          PUSHAB   PAS$FV_INPUT
   00000000G  EF              01   FB 011ED          CALLS    #1,PAS$READLN2
                 00000000G    EF   9F 011F4          PUSHAB   CRLF                                    ; 6653
                              02   DD 011FA          PUSHL    #2
                 00000000G    EF   9F 011FC          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              03   FB 01202          CALLS    #3,PAS$WRITE_STRING
                 00000000G    EF   9F 01209          PUSHAB   PAS$FV_OUTPUT
   00000000G  EF              01   FB 0120F          CALLS    #1,PAS$WRITELN2
          F0  AC 00000000G    EF   7D 01216          MOVQ     NULL_STRING,-16(R12)                    ; 6655
          F0  AD  010E00FF    8F   D0 0121E          MOVL     #17694975,-16(FP)                       ; 6656
          F4  AD      FEED    CC   9E 01226          MOVAB    -275(R12),-12(FP)
                        F0    AD   9F 0122C          PUSHAB   -16(FP)
                        F0    AC   9F 0122F          PUSHAB   -16(R12)
   00000000G  EF              02   FB 01232          CALLS    #2,STR$TRIM
                 00000000G    EF   9F 01239          PUSHAB   INPUT_DESC                              ; 6657
                        F0    AC   9F 0123F          PUSHAB   -16(RT2)
   00000000G  EF              02   FB 01242          CALLS    #2,LIB$SCOPY_DXDX
   00000014G  EF 00000004G    EF   D0 01249          MOVL     INPUT_DESC+4,PARAM_BLOCK+20             ; 6658
   00000010G  EF 00000000G    EF   3C 01254          MOVZWL   INPUT_DESC,PARAM_BLOCK+16               ; 6659
00V00000000G  EF              00   E1 0125F          BBC      #0,JOURNAL_ENABLED,148$                 ; 6665
                        F0    AC   B5 01267          TSTW     -16(R12)                                ; 6667
                              00V  15 0126A          BLEQ     146$
              7E        F0    AC   3C 0126C          MOVZWL   -16(R12),-(SP)                          ; 6669
                              00   DD 01270          PUSHL    #0
                        F4    BC   9F 01272          PUSHAB   @-12(R12)
                  000000FF    8F   DD 01275          PUSHL    #255
                 00000000G    EF   9F 0127B          PUSHAB   JOURNAL_FILE
   00000000G  EF              05   FB 01281          CALLS    #5,PAS$QRITE_STRING
                 00000000G    EF   9F 01288          PUSHAB   JOURNAL_FILE
   00000000G  EF              01   FB 0128E          CALLS    #1,PAS$QRITELN2
                              00V  11 01295          BRB      148$
                 00000000G    EF   9F 01297  146$:   PUSHAB   JOURNAL_FILE                            ; 6677
   00000000G  EF              01   FB 0129D          CALLS    #1,PAS$QRITELN2
                        F0    AC   B5 012A4  148$:   TSTW     -16(R12)                                ; 6679
                              00V  12 012A7          BNEQ     150$
                        F0    AC   9F 012A9          PUSHAB   -16(R12)                                ; 6683
   00000000G  EF              01   FB 012AC          CALLS    #1,STR$FREE1_DX
                              00   DD 012B3          PUSHL    #0                                      ; 6684
                              00   DD 012B5          PUSHL    #0
                              00   DD 012B7          PUSHL    #0
                  00B38040    8F   DD 012B9          PUSHL    #11763776
   00000000G  EF              04   FB 012BF          CALLS    #4,LIB$SIGNAL
                        F8    AC   9F 012C6  150$:   PUSHAB   -8(R12)                                 ; 6688
                        F0    AC   9F 012C9          PUSHAB   -16(R12)
   00000000G  EF              02   FB 012CC          CALLS    #2,OTS$CVT_TI_L
   00000000G  EF              50   D0 012D3          MOVL     R0,ISTATUS
              00V00000000G    EF   E9 012DA          BLBC     ISTATUS,152$                            ; 6690
   00000027G  EF        F8    AC   D0 012E1          MOVL     -8(R12),TEST+39                         ; 6692
                              00V  11 012E9          BRB      157$
   00000000G  EF        F4    BC   91 012EB  152$:   CMPB     @-12(R12),APOSTROPHE                    ; 6694
                              00V  12 012F3          BNEQ     154$
              50        F4    AC   D0 012F5          MOVL     -12(R12),R0
```

```
                            00000000G   EF       02   A0   91 012F9         CMPB    2(R0),APOSTROPHE
                                                      00V  13 01301         BEQL    155$
                                                 F0   AC   9F 01303 154$:   PUSHAB  -16(R12)                                    ; 6702
                            00000000G   EF            01   FB 01306         CALLS   #1,STR$FREE1_DX
                                                      00   DD 0130D         PUSHL   #0                                          ; 6703
                                                      00   DD 0130F         PUSHL   #0
                                                      00   DD 01311         PUSHL   #0
                                           00B38030   8F   DD 01313         PUSHL   #11763760
                            00000000G   EF            04   FB 01319         CALLS   #4,LIB$SIGNAL
                                                      00V  11 01320         BRB     157$
                                        50       F4   AC   D0 01322 155$:   MOVL    -12(R12),R0                                 ; 6709
                            00000027G   EF       01   A0   9A 01326         MOVZBL  1(R0),TEST+39
                                   59   8F 0000001EG  EF   91 0132E 157$:   CMPB    TEST+30,#89                                 ; 6711
                                                      00V  12 01336         BNEQ    165$
                                        20 00000027G  EF   D1 01338         CMPL    TEST+39,#32                                 ; 6718
                                                      00V  19 0133F         BLSS    163$
00000027G  EF       5A   8F             07            00   ED 01341         CMPZV   #0,#7,#^X5A,TEST+39
                                                      00V  19 0134B         BLSS    163$
                                        23 00000027G  EF   D1 0134D         CMPL    TEST+39,#35
                                                      00V  13 01354         BEQL    163$
                                        24 00000027G  EF   D1 01356         CMPL    TEST+39,#36
                                                      00V  13 0135D         BEQL    163$
00000027G  EF       40   8F             07            00   ED 0135F         CMPZV   #0,#7,#^X40,TEST+39
                                                      00V  12 01369         BNEQ    164$
                                                 F0   AC   9F 0136B 163$:   PUSHAB  -16(R12)                                    ; 6732
                            00000000G   EF            01   FB 0136E         CALLS   #1,STR$FREE1_DX
                                                      00   DD 01375         PUSHL   #0                                          ; 6733
                                                      00   DD 01377         PUSHL   #0
                                                      00   DD 01379         PUSHL   #0
                                           00B38038   8F   DD 0137B         PUSHL   #11763768
                            00000000G   EF            04   FB 01381         CALLS   #4,LIB$SIGNAL
                                                              01388 164$:
                                                              01388 165$:
                                           00000000G  EF   94 01388 166$:   CLRB    TEMP_FULL_PROMPT                            ; 6744
                                                           04 0138E         RET                                                 ; 6746

; Routine Size: 5007 bytes,    Routine Base: $CODE + 0D880

                                                              0EC0F         .END
```

```
COMMAND QUALIFIERS

  PASCAL/MACHINE/NODEBUG/NOCHECK/LIS=LIS$:EDFASK/OBJ=OBJ$:EDFASK MSRC$:EDFASK

  /CHECK=(NOBOUNDS,NOCASE_SELECTORS,NOOVERFLOW,NOPOINTERS,NOSUBRANGE)
  /DEBUG=(NOSYMBOLS,NOTRACEBACK)
  /ENVIRONMENT=_$255$DUA28:[EDF.OBJ]EDFASK.PEN;1
  /LIST=_$255$DUA28:[EDF.LIS]EDFASK.LIS;1
  /OBJECT=_$255$DUA28:[EDF.OBJ]EDFASK.OBJ;1
  /NOCROSS_REFERENCE /ERROR_LIMIT=30 /NOG_FLOATING /MACHINE_CODE /NOOLD_VERSION /OPTIMIZE /NOSTANDARD /WARNINGS


COMPILER INTERNAL TIMING

  Phase                   Faults       CPU Time      Elapsed Time
  Initialization              89       00:00.5         00:02.5
  Source Analysis           1199       00:31.6         05:00.3
  Source Listing              50       00:08.2         00:16.4
  Tree Construction         1182       00:06.2         00:12.5
  Flow Analysis              111       00:02.9         00:05.2
  Profit Analysis             62       00:03.3         00:07.0
  Context Analysis          1121       00:37.2         01:11.1
  Name Packing                67       00:01.2         00:02.0
  Code Selection             809       00:09.0         00:19.1
  Final                      834       00:46.3         02:02.3
  TOTAL                     5531       02:26.5         09:18.5

COMPILATION STATISTICS

  CPU Time:        02:26.5          (2774 Lines/Minute)
  Elapsed Time:    09:18.5
  Page Faults:     5531
  Compilation Complete
```

0124 AH-BT13A-SE
VAX/VMS V4.0

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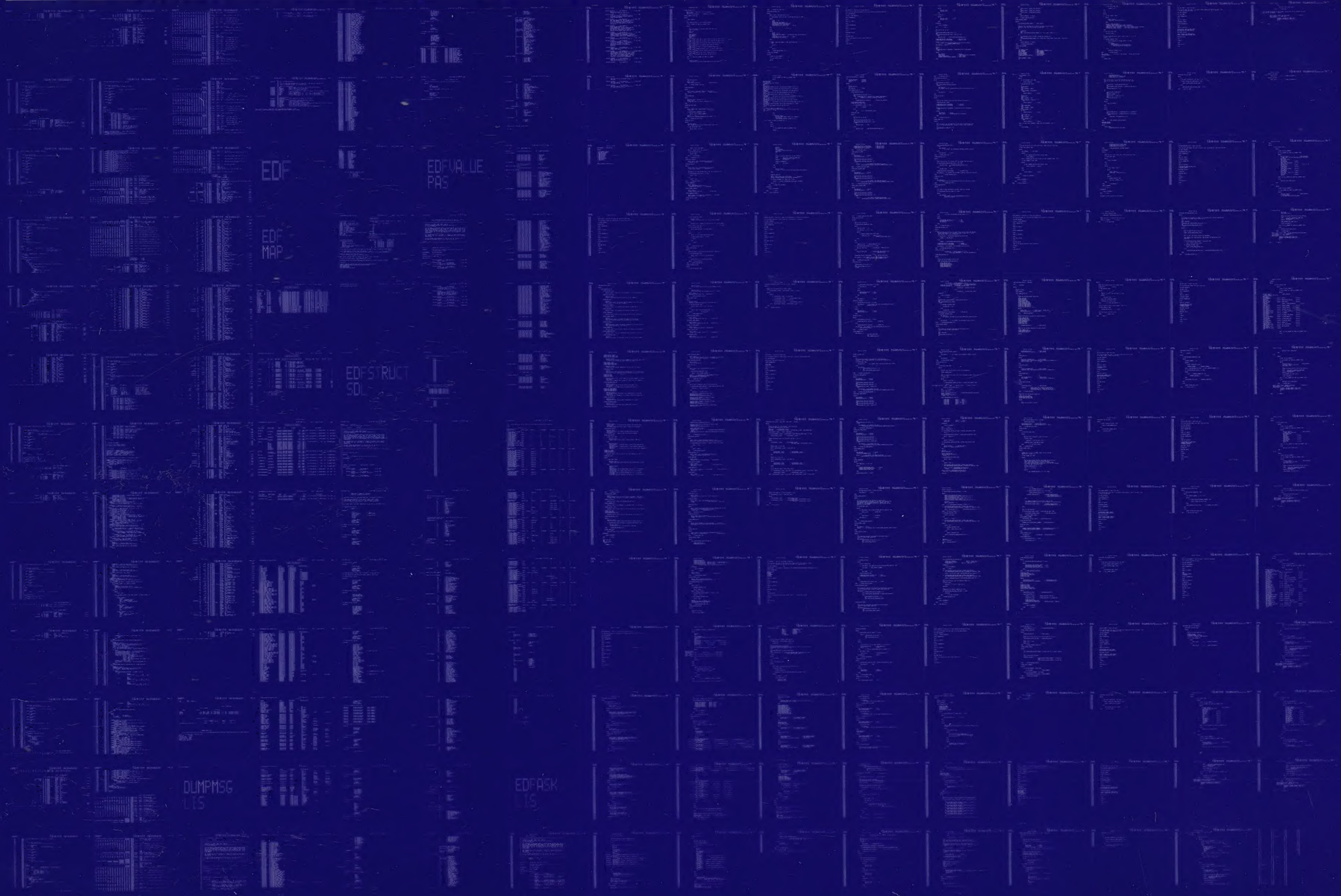

0125 AH-BT13A-SE
VAX/VMS V4.0

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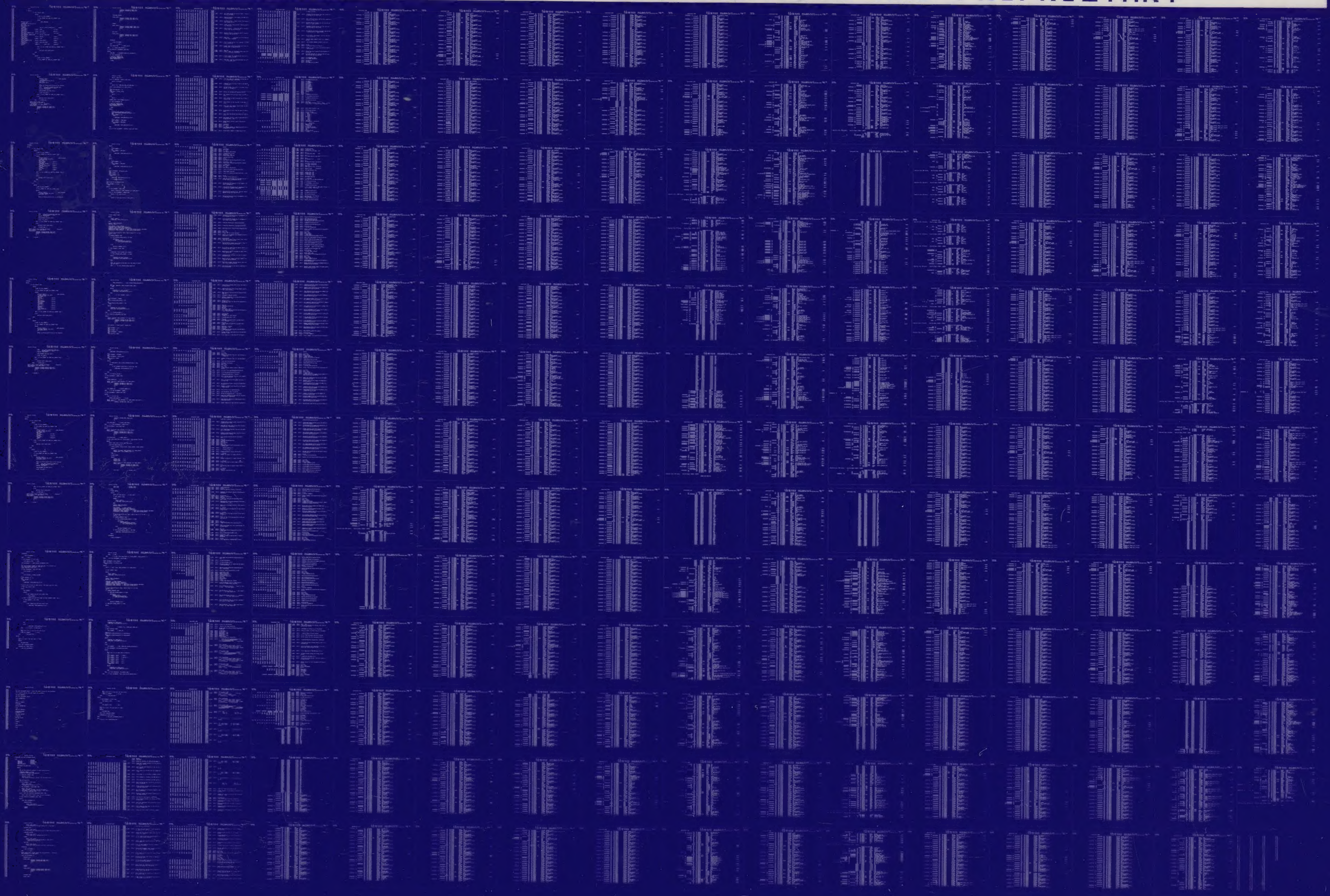

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